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February-March, 1981
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The National
Future Farmer
Owned and Published by the Future Farmers of America

February-March, 1981
Volume 29 Number 3
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A Word With The Editor

There are so many things going on in the industry of agriculture and the FFA that your editors are sometimes hard pressed to decide what they should package for you in each issue. The content of the magazine is designed to go beyond information about the organization and bring you other articles of interest that contain information you can use. We hope, too, that you will find parts of each issue entertaining. These items not covered elsewhere should be brought to your attention:

FFA WEEK is February 21-28 and the theme for this year's celebration is "FFA—Building Tomorrows Today." Your chapter was mailed a How-to-do-it and Idea Packet earlier which is a treasure house of ideas for 1981 nationwide FFA WEEK celebration. Many chapters already have their plans underway but if your chapter does not, it's still not too late to get the Idea booklet and get a program going. Your efforts will be repeated by thousands of chapters throughout the nation and will focus nationwide attention on the program of vocational agriculture/FFA. Agriculture and a sound vocational education program in agriculture are both essential for the welfare of our nation.

The National FFA Officers will be on their annual Goodwill Tour from February 19-March 6. They will visit approximately 16 cities during this period and will be divided into two teams for most of the tour. This will follow a series of visits to key companies, organizations and government agencies in the Washington area in late January and their international tour to Europe February 5-14. Some states and local FFA chapters have found it beneficial to conduct their own tours at the time the national officers are conducting their tour.

The National FFA Board of Directors, officers and consultants met January 26-29 to deal with major items of business coming before the organization. There are two other meetings of the boards each year, one in July and another just prior to the National FFA Convention to deal with convention matters. Preliminary budgets and the proposed national program of activities which included committee recommendations made at the National FFA Convention were two major items of business. On January 30, the FFA Foundation Board of Trustees met to handle Foundation items of business.

Wilson Carnes

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Our Cover

Exemplifying this issue's editorial emphasis on crop production is Whit Knapple, a 17-year-old Weiner, Arkansas, FFA member. Whit combines a yearning to farm, a will to learn and the scientific method to achieve ever-increasing yields on his acreage. *Cover photo by Jeffrey Tennant*

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Readers Report

MAILBAG

North Newton, Kansas

In your December-January issue, you are suggesting that windmills are hard to find in the Netherlands. It is true that the amount of windmills has decreased from 11,000 in the 1800's to 1,200 nowadays, but that is still quite a bit for our country, which fits six times within Kansas.

Hans Verboom
Bethel College

Peabody, Kansas

On Saturday, October 4, the Chamber of Commerce of Peabody sponsored a fall festival, to which everyone was invited to participate. The Peabody Burns Chapter took up the invitation by setting up the only farmers' market there. Members of the chapter brought items to sell. The FFA received 10 percent of the selling price. Items for sale varied from barn boards and black walnuts to sheepskins and antiques. The festival, including the farmers' market, was a success. The chapter decided to donate all of the proceeds earned to the FFA Hall of Achievement.

David W. Cooper
President

Another good example of chapter support for the Hall of Achievement at the National FFA Center. Member support is very much needed in order to build an endowment fund which will in turn provide operational funds in future years.—Ed.

New York, New York

On behalf of the Sponsoring Committee of the FFA Foundation, I want to express my appreciation to you for the space provided to publicize the Hall of Achievement and what it means to FFA members. It is my sincere hope that this additional publicity will help us convince additional FFA chapters that they should participate in raising funds for this endeavor.

Your cooperation and participation in this project over the last two years has been noteworthy. Please accept my sincere thanks.

R. M. Hendrickson

There is still the opportunity for members to contribute their personal $1 toward the Hall of Achievement. Send it to Hall of Achievement, National FFA Foundation Sponsoring Committee, Box 5117, Madison, WI 53705. Include your name, complete address and chapter.—Ed.

Lakewood, Colorado

May I have your permission to reproduce the article "16 Steps to Successful Learning and Better Grades" from your October-November, 1979, issue? I would like to share this article with our tenth-grade students.

Study skills seem to be a real problem area for many tenth graders. The information contained in the above article can, in my judgment, provide them with some invaluable suggestions for improving their grades and learning in general.

Forest O. Peneton,
Counselor
Green Mountain High School

Moneta, Virginia

I want to thank you for the article published in the magazine on the Bedford Federation FFA Summer Conference. It took a lot of planning for it but Ronnie Thomas, Jeff Powers, Matt Yeatman and myself really enjoyed it. But we couldn't have done it without the guidance of Mr. Dwight Paulette. He is an admirable man with enthusiasm for the FFA that is contagious.

There is one man, however, that deserves special recognition. His name is William C. Dudley. Mr. Dudley just recently retired from his assistant supervisor's job here in Virginia. He was also the one-time advisor of Mr. Julian Campbell. I cannot express my admiration and respect for Mr. Dudley enough. He's trained the Virginia State officers for as long as anyone can remember and is a "walking encyclopedia" of knowledge and history.

Bobbie Jo Bray
State Treasurer

South Solon, Ohio

I have just finished reading the article in the October-November, 1980, issue pertaining to the project on hams and bacon, done by the Hundred High School.

What I am seeking is any information they may be able to give in regards to smoking the hams, sugar-curing hams, smoking bacon, construction of smoke house and smoke pit.

I am 15 years old and have my own hogs. I had one litter and will have another farrowed in January and would like any information Virgil Wilkins may be able to give me in regards to raising my hogs for ham and bacon.

Jay Lansing

We passed along Jay's letter to Advisor Wilkins in West Virginia.—Ed.

College Park, Maryland

The University of Maryland Collegiate FFA would like to thank you for taking our chapter on a tour of the National Center in November. As future chapter advisors it is important that we understand how our National Center works. The tour was very beneficial, especially to those members who didn't have the opportunity to participate in FFA at the high school level. Thank you again for the guided tour.

Mary Jane Ramsburg
University of Maryland Collegiate Secretary

McComb, Ohio

I hate to be picky, but in the article "Saving A Crop," in the "FFA in Action" section of the December-January issue, it calls cucumbers "pickles." It is common in northwest Ohio to find people who make this mistake and speak of "picking pickles."

Tom Goodwin

Reasons for optimism and opportunities

Because there's an ever-growing desire for more and better food worldwide, the outlook is optimistic for America's producers of grain, meat, milk and eggs.

As demand for food increases, so will opportunities for well-trained young people who are interested in agriculture.

Terms like "fast-paced", "exciting", "challenging" and "professional" now apply to hundreds of careers in agriculture. And we believe it's important to encourage interested young people.

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The FFA

NEWS IN BRIEF

LIFE MEMBERSHIP in the national FFA Alumni Association continues to climb at a rate averaging 50 per month. Woody Cox, Alumni executive director, says, "The $100 one-time dues is placed in an interest-bearing account and may be returned in full as a memorial scholarship designated by the member. A scholarship is provided about once a month." Life membership in the association now totals nearly 2,500.

ESTATE PLANNING workshops are currently being tested in pilot programs by the National FFA Alumni Association and the National FFA Foundation Sponsoring Committee. Kim Havens, the committee's assistant executive director, is planning eight workshops in Wisconsin in cooperation with local Alumni affiliates. Panels of estate planning experts, such as lawyers and insurance agents, will advise attendees on handling wills, trusts, deferred gifts and insurance bequests.

MEMBERSHIP IN FFA is close to pace with last year's count, with a few large states still unreported. While a great number of chapters qualify for 100-percent membership recognition on the national level, 403 chapters have decreased by 10 or more members. Most chapters with alarming decreases are spot-checked to determine reasons for the decline. The use of two rosters (one early, one late) by the same chapter and teacher changes are two oft-found reasons.

BANQUET SUPPLIES, such as official FFA placemats, cups, plates and awards, should be ordered now, suggests Harry Andrews, FFA Supply Service director. Many chapters wait "until the last minute," says Andrews, "to order supplies, often requesting their order in a week's time. Because of rush air mail costs, early planning and ordering can save your chapter money."

FFA'S HALL OF ACHIEVEMENT continues rapid progress toward a goal of completion by June. FFA chapters have directed $28,000 through the National FFA Foundation for use in an FFA endowment, set up to provide ongoing funds for the Hall. Sponsors of the Hall's ten exhibits are: DeKalb AgResearch, Inc.; Ford Motor Company: John Deere; Pfizer, Inc.; Phillip Morris, Inc.; Pioneer Hi-Bred International, Inc.; Seald-Sweet Growers, Inc.; Sperry New Holland and The Upjohn Company. The Diamond Shamrock Corporation, General Motors, H. J. Heinz and the Miller Publishing Company have also contributed.

NATIONAL OFFICERS Mark Herndon, Bob Quick, David Alders, Susie Barrett, Glenn Caves and David Pearce embark on an international experience program to Europe on February 5. Lennie Gamage, FFA international programs specialist, and Larry Nelson, national FFA Board of Directors member from South Dakota, will accompany the student officers to Belgium, France and West Germany for talks with national agricultural leaders and young farmer groups. The ten-day excursion, sponsored by the Carnation and Elanco companies, includes visits to European farms and agribusinesses.

THE HIGHEST AWARD given by the FFA Alumni Association was recently bestowed upon two members as recognition for outstanding leadership and accomplishment in service to agriculture. The two recipients for 1980 are J. Lamar Branch of Tifton, Georgia, and Thomas E. Stine of Ozark, Missouri.

A BREAKDOWN of monies distribution from the National FFA Foundation to FFA operations and programs can be seen in chart A (below), provided by the Foundation Sponsoring Committee. Bernie Staller, executive director, says only 18 percent of the monies collected are used to offset fund-raising costs.

1981 (BUDGETED)
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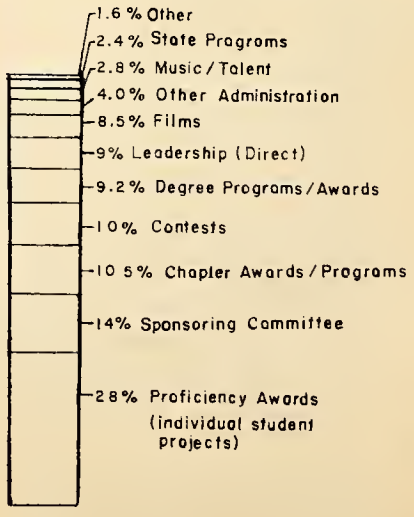
1.6 % Other
2.4 % State Programs
2.8 % Music / Talent
4.0 % Other Administration
8.5 % Films
9% Leadership (Direct)
9.2 % Degree Programs / Awards
10% Contests
10 5% Chapter Awards / Programs
14% Sponsoring Committee
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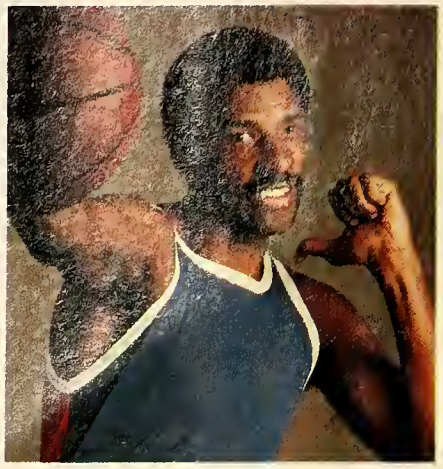

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Agriculture

LOOKING AHEAD

MOMENSIN, a new feed additive, has induced remarkably improved calf gains on bermudagrass pastures, according to Texas A&M University research. Improved gains of 23 to 45 percent, and feed efficiency increases of 21 to 36 percent were recorded in calves with momensin incorporated into the rumen. The additive, one of several used to improve performance, is a biologically active non-hormone compound that alters the digestive process of cattle.

FAMILY INCOME buys more food today than 25 years ago, partly because of increased efficiency in agriculture production. According to USDA's *Fact Book of U.S. Agriculture,* here's what the average U.S. factory worker could buy with an hour's pay in 1950 and in 1978:

Food Item	*1950*	*1978*
White Bread	10.1 lbs.	17.0 lbs.
Frying chickens	2.5 lbs.	9.6 lbs.
Milk	8.0 qts.	14.4 qts.
Potatoes, fresh	32.7 lbs.	44.1 lbs.
Eggs	2.4 doz.	7.9 doz.
Pork	2.7 lbs.	4.3 lbs.

WORLD AGRICULTURAL output equaled 1979 production, reports USDA, but because of a population increase, that output declined 2 percent per capita—the lowest level since 1972. A 3 percent decline in agricultural production in developed countries was partially offset by a substantial increase in production in developing nations. The report also predicts 1981 will bring expanded export sales for U.S. farmers.

FARMERS constitute only 7.8 percent of all landowners in the United States, but they own 46 percent of the nation's land. Those figures, taken from a USDA report and the *Farm Paper Letter,* compare with white- and blue-collar workers owning only about one-fourth of America's privately held land. The federal government owns 34 percent of the nation's 2.3 billion acres of land. Only one-tenth of 1 percent of America's land is owned by those residing outside the U.S.

PRESIDENT REAGAN has placed expansion of foreign markets and bolstering agricultural research as top priorities in his administration's commitment to U.S. agriculture. "Foreign markets will be promoted vigorously," Reagan told *Farm Bureau News,* adding that he would not "single out any farmers to bear the brunt of an embargo." The president continued, "Agricultural research must be expanded. . . . Research is the key to greater productivity, expanded exports and increased income from farming."

FOOD PRODUCTION must double in the next 50 years to keep pace with expanding world population growth, report University of Missouri-Columbia agricultural experts. Population is expected to jump from four to eight billion by the year 2030. Farmers took 12,000 years to reach today's production levels, but that output is challenged to double in the next 40 to 60 years.

PEANUT CHEESE, sweet potato leather and cottonseed bread are recent innovations developed by food scientists at the Texas Agricultural Experiment Station. Objectives of developing these and other experimental foods include improving existing foods; new uses for old foods (and new markets for producers); lowering food costs and increasing nutritive value. Still under tests: rice french fries, green tomato snacks and freeze-dried egg whites.

A SOY-FUELED BUS at Ohio State University has found new power from deep fat fryers in campus cafeterias, reports *Soyworld* magazine. OSU mechanic Dr. Helmuth Engelman says the 20:80 mix of soy cooking oil and diesel gives slightly better fuel consumption and less smoke than pure diesel.

TRENDS revealed in a survey taken of 24,000 high school juniors and seniors named to *Who's Who Among American High School Students* indicate a profile of high morals and good health for tomorrow's leaders. Nearly half don't drink, 88 percent don't smoke and 94 percent have never used illegal drugs.

SEAWEED FARMING could delay minimal shortages of food, fertilizer, liquid fuel and natural gas, reports *World Development Letter.* Kelp—an ocean weed that can grow two feet a day—can be readily harvested from ocean nurseries and converted to food, synthetic fuel, fertilizer and lubricants now obtained from agricultural and petroleum sources.

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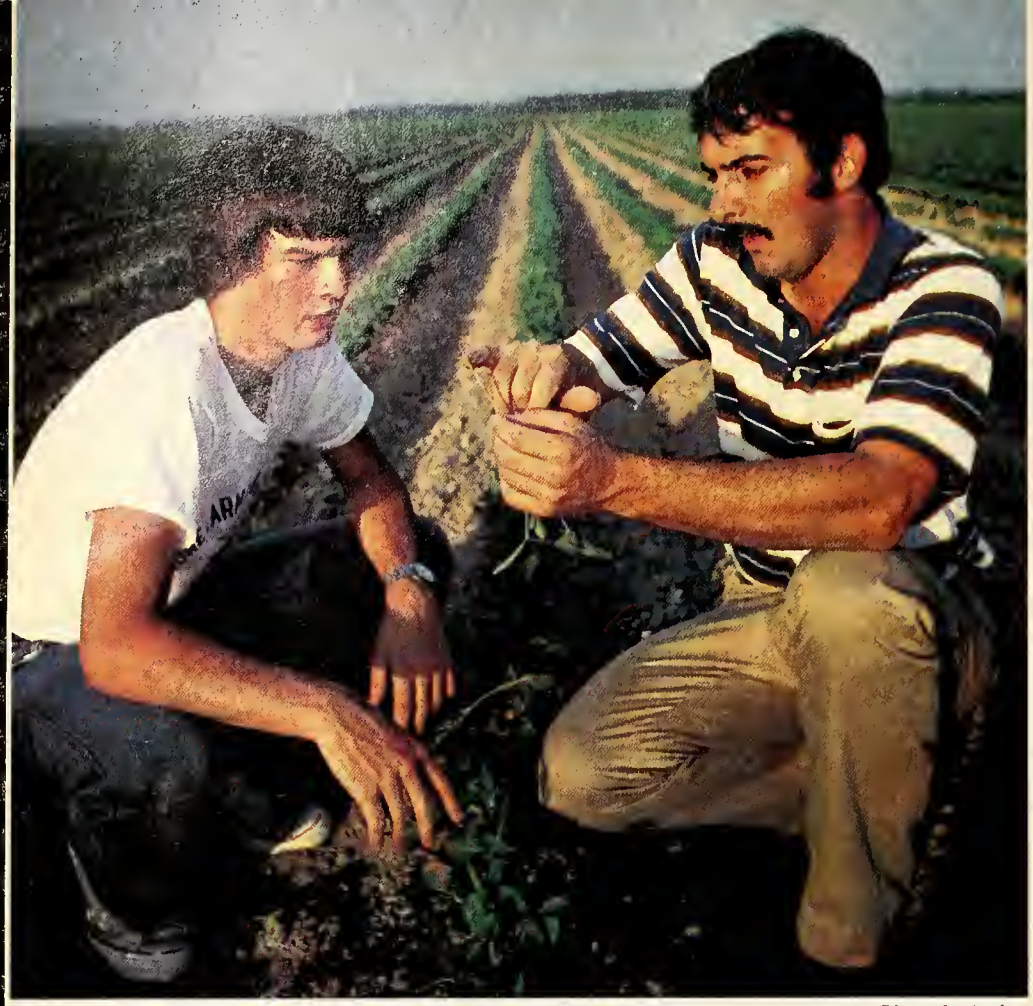
An Arkansas FFA member utilizes an overlooked production aid to reap increased yields.

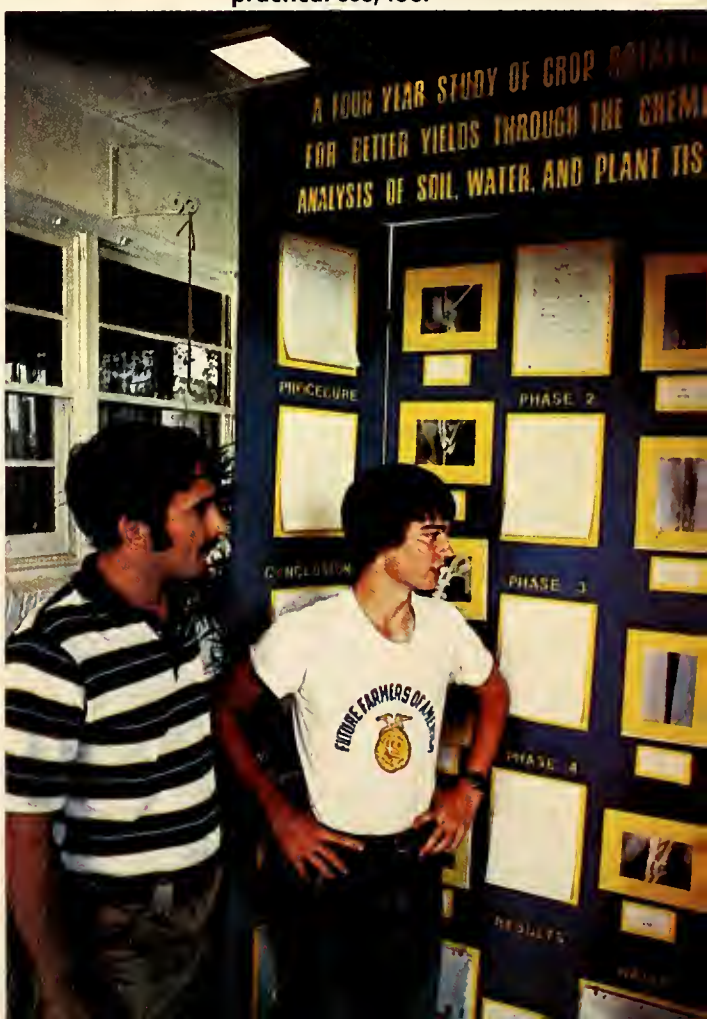
By Jeffrey Tennant



Whit listens as Advisor Anthony Ashlock describes the soybeon root's function.

Photos by Author

Whit applies his research project to practical use, too.



In Tokyo, Japan, Arkansas rice is sold in great quantity to the massive, bustling populace. More than half of the U.S. rice crop is marketed overseas with over 1,000 metric tons exported to Japan and Hong Kong. Arkansas ranks as America's number one rice producer, with some 4,700 farm families contributing to the state's rice output.

In the realm of rice growers, Jack and Linda Knapple, along with son Whit and daughter Valerie, are among a select few who produce the seed that other farmers eventually plant. The Knapples own and operate a 1,300-acre rice and soybean farm in the Mississippi River flatlands near Jonesboro, Arkansas. Whit, a 16-year-old junior in Weiner High School's FFA/vo-ag program, already claims part of the family operation as his own.

"For a 25 percent profit share," says Whit, "I provide all the labor, seed and a fourth of the fertilizer on 27 acres of rice and 27 acres of beans. It's an agreement with Dad. He provides the equipment, fuel and the fertilizer balance."

Whit says he values the opportunity to grow his own crops—get his "feet wet" in farming. He means that—literally—when it comes to working the oft-flooded rice fields—soggy, mosquito-laden patches that demand much from their grower. Anthony Ashlock, Whit's FFA advisor, isn't suprised at Whit's early entry into farming.

"He was chapter Star Greenhand," says Anthony, "and now he's our vice president. His leadership traits add to his ability to perform in agriculture but he excells academically, too. My horticulture class is the only plant science Whit's had but he's now doing crops research similar to that of agricultural experiment stations."

Aside from the hand work and management of his 54 acres, Whit is immersed in an extensive plant study proj-

ect that has garnered area and regional science fair awards through Whit's eighth, ninth and sophomore years. The project recently qualified Whit to compete in the International Science Fair in San Antonio.

"I've always liked science and research," says Whit, also serving as Weiner Science Club president and vice president of the Northeast Arkansas Junior Academy of Science. "In fact, I often think of pursuing a Ph.D. in agriculture, possibly going on to research."

Whit's research program not only wins awards. He attributes the project's results with increasing the family's profit over the last four years by over $20,000. The research was designed from the beginning to produce such end results.

"I had an interest in increasing yields," Whit recalls, "to offset inflating production costs. I realized we simply didn't know enough about the soil we were farming. I set out to prove that basic tests could improve yields by giving us proper direction for soil strengthening."

Whit established his project in the seventh grade for a science fair. He collected soil samples from four Knapple fields and tested for ammonia, *p*H factor, humus, nitrate nitrogen, phosphorus and potassium. After studying the required minimum amount for proper crop growth in his area's soil and comparing with soil test results, Whit discovered his soil's weaknesses and recommended additives. The first fruits, though not known until a year later, showed dramatic increase in crop yield.

"From those initial tests," says Whit, "we went from 28 bushels per acre soybeans to 40 bushels. And that was mainly from using tests that are available either through school or the nearest ag experiment station."

Whit expanded his testing through his eight grade years, adding tests for minor elements such as manganese, magnesium, calcium, iron and aluminum. By Whit's ninth grade year, "Phase III" began—analysis of plant tissue.

"I chose plants at different stages of growth," he explains, "so I could get an idea of when nutrients were needed most. The school had plenty of equipment to use, though by this time I had bought some tests of my own."

The enclosed back porch of the Knapple home is neatly arranged with rows of empty vials, notebooks, sampling jars and bottled chemical solutions. Charts marking progress of crop yields, showing proper crop rotation times and measuring the year's rainfall hang in proper places on Whit's science fair exhibit. Over 495 tests can be made on the Knapple land—Whit completed 308 in the 1979-80 crop year, from boron tests to water analysis.

Whit's records and testing materials are kept in a back porch laboratory.

"Farmers need to approach agriculture from a scientific standpoint," Whit surmises in his 10-page report. "The added income, by increasing yields with little expense, should be incentive for the average farmer to consider scientific management practices."

Are the tests feasible for every farmer? Whit concludes tests are possible and can be easily performed, though many farmers do not initiate testing.

"Farmers must try to combat rising costs," Whit reports, "not only by demanding better prices but by producing better yields through research."

Whit's plan for better yields does not hinge on element addition alone. Results of soil tests can also help farmers determine optimum crop rotation schedules.

"Tests on soil, plant tissue and irrigation water tell me what elements are leached or taken up by the plant," says Whit, "and when the elements are utilized. More efficient application of fertilizers can then be initiated. However, it's also true that rice takes nitrogen from the ground but soybeans don't—'beans draw nitrogen from the air and pass it to the ground. That's why we plant two years of 'beans in a field and then one year of rice."

While data is accumulated, Whit also manages to farm, hold down athletic obligations and an office in student council. Nurturing and harvesting the family crops with their increasing yields is an on-going challenge.

"I started driving the tractors at age 12," Whit shares, jumping from the ladder of a mammoth 8430 John Deere 4-wheel drive. "Rice especially demands much machinery work."

Unique to rice farming are the levees built with special discs to make flood irrigation possible. The winding mini-dams can often take 25 percent of planting area out of production unless levees are sown.

Once the yearly chores of building levees, seeding and applying herbicides are done, abundant underground wells are uncapped to feed the growing plants and provide weed control in the rich, marshy ground. The flood stands in fields for several days before a yellow tint indicates draining time. As Whit proves, observing plants and soil often "tells" the best management move.

"I believe scientific testing can be a guide for effective crop rotation and better yields," Whit assures. "I plan to continue all my tests, though there aren't many more I can obtain. Next I want to experiment with chemical effects on crop yields."

Not unlike many pioneering scientists, Whit's far-reaching plans are not self-serving. His project report perhaps reveals a broader purpose: "I hope," he writes, "this study will prove beneficial to the advancement of scientific agriculture and farming."

Knapple machinery, when retired from the field, covers nearly an acre lot.

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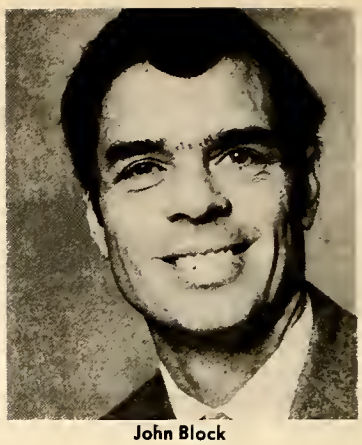

John Block

Agriculture's New Secretary

JOHN R. Block, a leader in Illinois state government and an active farmer, is now serving the United States as Secretary of Agriculture on President Ronald Reagan's Cabinet.

Block, 45, headed the Illinois Department of Agriculture before his appointment as a cabinet member. An owner and operator of a family farm near Galesburg, Illinois, Block farms a 3,000 acre farrow-to-finish hog operation that produces some 6,000 hogs a year. The new secretary holds the FFA's State Farmer degree, and also attained the office of section FFA president during his years as a Future Farmer.

After graduating from Knoxville High School in Illinois and the FFA chapter there, Block went on to fulfill an appointment to the U.S. Military Academy at West Point. Since 1960, when he completed U.S. Army service as an infantry officer, he has guided the growth of Block Farms.

Before being named to the Cabinet, Block dealt in international agriculture as Illinois' state agriculture director. He supervised the department's export offices in Brussels, Belgium and Hong Kong, and has served as a member of agricultural export teams traveling to China and Japan. Last September, Block led a three-week "people-to-people" fact-finding mission to the Soviet Union, Poland, Hungary, Austria and Switzerland.

Always active and concerned with agriculture as a young farmer, Block received the U.S. Jaycees Outstanding Young Farmer Award. He held a seat on the Illinois Young Farmer State Committee from 1962 to 1966, and was named to the American Farm Bureau Federation's Young Farmers and Ranchers Advisory Committee in 1967. The secretary is a trustee of the Farm Foundation and former board member of the Illinois Farm Bureau.

Building For A Better Tomorrow

Steven Hasper, Montrose, Iowa
1980 National Home and Farmstead Improvement Winner

Steven Hasper has determination. He's building for tomorrow right now, through activities in the FFA Home and Farmstead Improvement Program.

When he was only 13, Steven constructed two outdoor storage bins, built fences and renovated out-buildings. By 18, he completed landscaping the family farm, building a tool shed, preparing facilities for his own hog operation and renovating a farm pond: Activities aimed at improving his life on the farm.

That's what FFA is all about: Planning and working toward a better tomorrow.

This requires team effort. And The Upjohn Company is enthusiastic about being part of this team as sponsor of the FFA Home and Farmstead Improvement Program.

The people at Upjohn think it's important to work together with concerned individuals, like Steven and his fellow FFAers, to make the American farm a better place on which to live.

Together, we can work toward this common goal.

Steven Hasper, a member of Central Lee, Iowa, FFA Chapter, received guidance and assistance from Advisor Robert Dodds.

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FFA HIGHLIGHTS FOR 1980

Editors of *The National FUTURE FARMER* have selected the following eleven items as highlights of the building year of 1980.

In the face of challenges of declining membership numbers and rising inflation, the FFA organization along with the FFA Alumni and National FFA Foundation have built a successful year of accomplishments.

1. **10-PLUS Program.** In order to increase membership, the FFA initiated the 10-PLUS program. The program provides for a 10-PLUS banner for any chapter that increases membership by ten or more. It also provided a colorful wall chart to display the progress in a chapter. Any chapter that achieved 100 percent FFA membership of its vo-ag students earned a special cap for the membership chairman (and the right to buy those caps for all the members).

2. **President's Energy Challenge.** Alamosa, Colorado, FFA Chapter was crowned winner of the President's Energy Challenge by Jimmy Carter in the Rose Garden at the White House on July 31 during the State Presidents Conference. The award was the culmination of a special effort by FFA chapters who responded to a challenge issued to them by the President of the United States in '79. The organization distributed the challenge and coordinated the selection of four regional winners: Madison-Gary, Florida; Woodlan, Indiana; Ridgedale in Morral, Ohio; plus Alamosa who received recognition from Estech General Chemical Corporation through the FFA Foundation. Alamosa Advisor Kirk Goble plus members Shawn Woods and Shannon Selvidge accepted a presidential citation on behalf of the 42-member chapter. The national organization was also awarded a presidential citation by Mr. Carter for having encouraged energy awareness in local chapters.

3. **Hall of Achievement.** Ribbon cutting ceremonies took place July 28 at the National Center for opening of the first exhibit of the Hall of Achievement. Mr. R. M. Hendrickson, president, Agricultural Division, Pfizer, Inc., who headed up this extra effort among National FFA Foundation sponsors, cut the ribbon to the gallery exhibit. The gallery exhibit was sponsored by John Deere. All other exhibits for the Hall, library and archives have been sponsored. Opening is slated for the spring of 1981. An accompanying fund drive chaired by Mr. Hendrickson is being conducted among FFA members to raise an endowment fund to provide continued operating costs for the Hall.

4. **National FFA Alumni Growth.** The Alumni has reached a high in membership of 18,565 according to Alumni Executive Director Woody Cox. Particular growth has come from Life Memberships. At their annual convention in 1980, Mrs. Phyllis Sokolosky of Owasso, Oklahoma, was elected president and is the first woman to serve in that capacity. Support for FFA by Alumni at local, state and national levels continues to grow.

5. **National Officers to Japan.** All six National Officers went as ambassadors for FFA to Japan in the spring prior to their Goodwill Tour to 20 American cities. In Japan the officers were hosted by Mitsui & Company, Ltd. and caught a glimpse of global agriculture. They also visited members of the Future Farmers of Japan and compared organizational activities. Each officer spent one evening in the home of a Japanese farm family. In the United States, the officers visited contributors to the National FFA Foundation and expressed appreciation for continued support of youth in agriculture.

6. **Welcomed The New Secretary of Education.** FFA members were on hand for the official opening ceremonies of the new U.S. Department of Education and introduction of Secretary Shirley Hufstedler. Members from New York presented her a corsage to wear for the ceremony. Then Maryland members demonstrated plant propagation at an exhibit which represented all of vocational education in high school. The federal charter for FFA links the organization with this new department created in 1980 by President Carter.

7. **Expanded Leadership Opportunities.** Increasing demand for local chapter officer leadership training as provided by the national organization caused the program to be expanded in 1980. The successful Washington Leadership Conference program which had provided week-long conferences during eight weeks each summer was expanded to two conferences each week for eight weeks. Two conference staffs operated the program. Chapter officers from all over the nation attended.

8. **FFA Jacket Sales Hit Record.** The National FFA Supply Service sold the 2,500,000th jacket in the fall of 1980.

9. **Convention Time USA.** A new film capturing the exciting thrills and leadership experience of members at a National FFA Convention was released this year. It was produced by Venard Films and sponsored by The Coca-Cola Company, funded through the National FFA Foundation. It has received wide acclaim for chapters and for use at state conventions and large meetings.

10. **Million Dollar Fund Raising.** Again in 1980, the sponsoring committee of the National FFA Foundation has raised over $1 million to provide incentive awards and support for FFA member activities. Chairman from the agricultural industry for 1980 was Mr. R. M. Hendrickson of Pfizer, Inc. Working with him were Bernie Staller, who moved into the executive director's slot vacated by retirement of Donald McDowell, and Kim Havens, a former Wisconsin vo-ag teacher and state FFA president, who moved into the assistant's position.

11. **National Proficiency Tour.** The winners of the 22 National Proficiency Awards toured Europe for three weeks in 1980 to learn more about agriculture in the world scene. The tour is paid for as part of each proficiency award program sponsored through the National FFA Foundation. The FFA members toured farms, ag businesses, stayed overnight with a farm family as well as visited the popular tourist areas of France, Germany, England, Luxembourg, Belgium and Holland.

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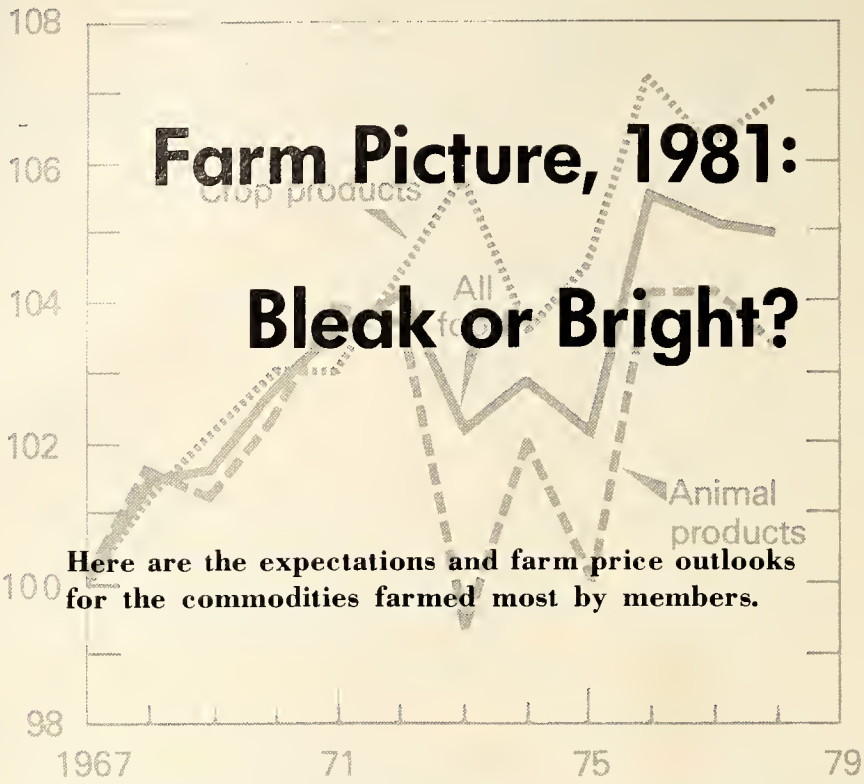

Farm Picture, 1981: Bleak or Bright?

Here are the expectations and farm price outlooks for the commodities farmed most by members.

FOR American farmers, a 1980 of dry weather, a tough and tight general economy and a grain embargo reaped fortune on a few and worked hardship on many. These highlights of the year's farm economy typify events that plague agricultural forecasters. Such factors that bear on the agricultural industry, especially farming, cannot be predicted.

Still, predictions made in November, 1979, for farming's future gave a respectable foretelling for 1980. Offered by a select group of farm economy analysts, the predictions were almost magical. The group said soybean prices to farmers would average $6.25 per bushel in 1979-80. The price averaged just that: $6.25. They said wheat prices per bushel would average nearly $3.90, a hefty increase of '78 prices. December estimates place the average at $3.95.

Sophisticated data-gathering systems and skilled analysts ready to decipher incoming statistics help keep track of farming's future. Secure with concrete data or tested information, forecasters can pinpoint the causes and effects of changing economic forces in agricultural production and marketing.

Here, then, are forecasts for 1981 as concluded at last November's USDA Agricultural Outlook Conference:

Beef Cattle

Rapid increases in production costs, a sharp economic dip and a widespread drought dampened the cattle industry's hopes for a bright year in 1980. These same symptoms exist, and with the possible exception of drought, are likely to cloud the '81 outlook.

A small cow herd and a continuing decline in per capita beef supplies points to record prices in '81. However, feed costs and other inputs are expected to offset any potentially large increase in gross income from sale of cattle. Declining consumer demand for beef will also soften price rises on the auction barn level.

Farm Price Outlook: Choice fed steers—$80 per hundredweight (cwt.) in springtime; feeder cattle—$97 per cwt.; brood and utility cows—up $10 per cwt. from 1979-80 levels.

Wheat

Rising world wheat import demand and reduced global stocks are resulting in higher prices and anticipated record U.S. exports into 1981. Several countries, including the U.S., harvested record wheat crops last year but consumer demand and production decreases in some countries offset any major supply increase.

Domestic use in the U.S. may rise slightly in '81, and the per bushel price should move similarly. Prices should follow a strong pattern into 1981 and hit above $4. High levels of planted acreage in the 1981-82 year, though, could stabilize or reduce prices.

Farm Price Outlook: $3.95-$4.25 per bushel.

Rice

U.S. rice production in 1980 is estimated at 11 percent above last year's crop and 10 percent above 1978's record year. A summer drought affected yields in some states, but favorable $11.50 cwt. prices in early 1980 caused producers to plant more and more acres. Rice supplies are now pegged at 5 percent higher than last year.

Domestic use and export demand will couple to provide a good market for large supplies. Exports are expected to rise 10 percent, and U.S. consumers should purchase a 3 million cwt. increase over 1980. Use is projected to increase slightly more than supplies, and stock levels will decline to bolster prices.

Farm Price Outlook: $10.25-$11.50 per cwt.

Soybeans

A sharp reduction in U.S. production for all oilseed crops—soybeans, sunflower-seed, flaxseed, peanuts and cottonseed—highlights the 1980-81 soybean outlook. Last year's heavy crop is cushioning sharp price rises now but prices should begin a rapid climb unless demand rapidly declines or foreign production reaches high levels.

In the U.S., where soybeans make up about 85 percent of all oilseed products, production dropped more than 25 percent in 1980. With oilseed demand expected to increase in 1980-81, soybeans should increase to around $2.25 above last year's $6.25 per bushel.

Farm Price Outlook: $8.50 per bushel.

Feed Grains

Feed, or coarse, grains—corn, sorghum, barley, oats and rye—are used primarily for livestock feeding in the U.S., the world's largest producers and consumer of such grain. Though world production of feed grain is down only 3 percent from a year ago, U.S. production is off 18 percent from last year's record harvest. Large carryover stocks are partially offsetting the short supply but demand is expected to remain near the record 1979-80 level.

Farm Price Outlook: (per bushel), corn—$3.35-$3.75; sorghum—$3.25-$3.60; barley—$2.60-$2.80; oats—$1.60-$1.80.

Dairy

In 1980, milk production set records but commercial use declined—assumedly price-deflating factors. However, through USDA price support programs, farmers received at least $12.80 per cwt. that contained 3.5 percent fat. The price is up from 1979 and such an outlook holds for 1981 prices.

Milk production in 1981 will again be at record levels, and USDA will continue to make large purchases of dairy products. Commercial use of dairy products for this year may increase as meat price increases make cheese more attractive to consumers.

(Continued on Page 55)

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Larry Craig, FFA member

FFA Broadened His Horizons

By Margaret Elley Felt

Larry Craig, Congressman

LARRY Craig, newly elected U.S. Representative from Idaho, retains several distinctions as he assumes his demanding role in American leadership. Never has a younger man served Idaho as State Senator. And, Larry also served FFA as national vice president from the western region in 1965-66.

At the age of 35, Larry is equally at home speaking before legislative bodies as he is in operating a combine on the 6,600 Craig ranch in western Idaho.

Larry's roots are deep in the soil of western Idaho. Born at Council, within 60 miles of where he now lives, his interest in FFA began in Midvale High School when FFA was first introduced in the area in 1959. He feels that his FFA experience expanded his horizons. From an agricultural background, FFA activities led him outside perimeters of his own state and the Pacific Northwest where he came to realize the importance of agriculture in a global scheme.

Following his year of traveling as a national officer, Larry returned to the University of Idaho where he graduated in 1969 with a bachelor's degree in political science. Larry left with honors, too, including the Outstanding Senior of the Top Ten receiving the Theophilus Award and Greek Man of the Year by the Idaho Inter-Fraternity Council. Of Craig's year as student body president, now retired president of the University, Ernest Hartung, said he believed Craig had been the school's most effective student body president.

From college, Larry went to Washington, D.C., for nine months of graduate work in U.S. foreign policy at the George Washington University. While there he also served on the research staff and as speech writer for Idaho Congressman Orval Hansen.

Always progressive in his thinking and equally curious about what other farmers were doing in other parts of the country and the world, Larry tried bringing home new ideas.

"If ranches of our type were to survive I could see that change was inevitable," Larry says. "We needed irrigation water desperately to continue to operate successfully."

Drilling eventually brought in one of Idaho's most productive wells. Now blessed with plenteous water, the Craigs increased their beef herd from 150 to 400 head. They replaced pitiful hay yields of three bales per acre with waist high alfalfa that averages five and a half tons to the acre. The Craigs are now considered one of the largest producers of certified alfalfa seed in Washington County. This year they are experimenting with sunflower seed for oil.

Larry says that western Idaho is not an easy land in which to farm for a living. "We have cyclical invasions of grasshoppers, droughts, duststorms, range fires and years when the ground squirrels outrun the coyotes. There are certain stretches of this country where the land is alive with rattlesnakes. I once bent down to inspect one of my bee houses when something flashed past my right ear. It was a huge rattler—and he was serious because he was coiling again when I killed him."

Congressman Craig combines certified alfalfa seed on the 6,600-acre ranch.

To outsiders it may seem that Larry Craig has won most of the battles in his young life rather easily. That isn't so, he says. It has been a "try and try again" pattern for him.

It took him two tries to win the office of Idaho FFA state president. He also tells about trying three times to win the FFA/United Nations youth speech contest, and how he won the first time at the Oddfellows speech contest.

"I studied speech with a retired attorney, D. L. Carter of Weiser, Idaho," Larry shares. "He was blind but a hard taskmaster. I wrote the speeches, then we taped them, listened to them, tore them apart and did them all over again. We concentrated on enunciation, stance and projection. I went on to Atlanta and Kansas City to win first in both regional and national contests. And I must say that one of my constant fans and source of encouragement was my mother. She was always urging me to give my best."

Larry feels that it was the combination of holding a national FFA office and winnin the speech contests that led him to take political science in college. During the next few years he also took part in several tours outside the Pacific Northwest including a Student Ambassador Tour in Asia and Indonesia.

This husky young Idahoan, an inch past six feet and weighing around 190 pounds, is happy following his present interests, farming and politics. And he has earned a reputation as one of the most astute young politicians in the state of Idaho. Now the nation can benefit from the qualities of leadership which Larry Craig possesses.

Margaret Elley Felt *authored* Gyppo Logger *and freelances in Washington and Arizona.*

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The Hesston Corporation is now marketing tractors, manufactured by Fiat Trattori, S.p.A. Turin, Italy.

The line consists of 29 tractor models including three ag crawlers. The models range from 42 to 160 PTO horsepower.

Hesston says two important features are common to the full range of wheeled tractors. They are powered by Fiat diesel engines and all 13 tractors are available with either two- or four-wheel drive, giving a total of 26 models of wheel tractors. A third feature common to all of the platform-type tractors in the line, is the availability of Fiat Supercomfort cabs. These cabs are optional on three models and standard on all tractors above 80 horsepower.

The model 780DT, a 70 PTO hp tractor carrying the Hesston and Fiat names.

Called the "Prime Line" the tractor range offers three, four, five and six-cylinder Fiat diesel engines.

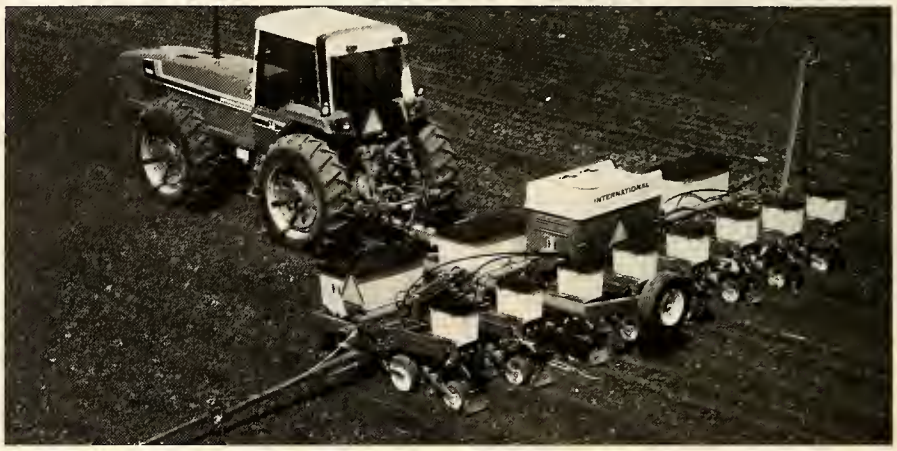
New Planter from IH

International Harvester offers a new line of 800 Series Early Riser Cyclo Air and Plate Planters with advanced electronic controls.

The company said its new models represent the most significant advancement in planter technology since the IH Cyclo Planter was developed in 1971, using air to meter seeds into the ground.

Developed at a cost of more than $25 million, with more than 30 patents pending, IH had tested the new units in over 35,000 acres of crops before marketing the new planter last November.

Equipped with an improved metering system plus a new row unit, IH says the Cyclo air models have up to 30 percent improved "in-row" seed spacing, at speeds up to 8 mph, in most crops, even in trashy conditions.



Early Riser Cyclo Air planter which International Harvester says can plant with 30 percent improved "in-row" seed spacing up to 8 mph in most crops.

Calling its new plate planters the most productive in their class, IH said they have many of the new features found on the air versions.

The new line features new microprocessor controls. Included is a monitor to check all rows for proper seed flow and seed level in the hopper, standard for the first time on both versions.

Fire Ant Control

The American Cyanamid Company offers a new insecticide to combat the fire ant, which now affects 230 million acres in nine southern states.

Losses can range from $10 to $30 per crop acre in infested areas.

Called AMDRO, it is the first insecticide to receive registration for use in wide area fire ant control programs since mirex was banned in 1978. Tests to date have shown AMDRO to be environmentally acceptable.

New Family of Harvestore Structures

A new "family" of Harvestore structures offers feed storage options to operators of mid-sized dairy farms and similar enterprises, according to the manufacturer, A. O. Smith Harvestore Products, Inc.

The family is made up of three 20-feet diameter nominal dimension structures that may be used to store either forage or grain.

The two smaller structures may be expanded as the operator's need for feed storage space increases. The units are engineered so that additional rings of glass-fused-to-steel may be added to increase their capacity. For example, a 2068 unit may be raised to either 77 or 87 feet height.

As with all Harvestore structures, these units are filled at the top and unloaded at the bottom, allowing the operator to add feed whenever room is available within the structure. A universal unloader trough allows a wide range of Harvestore grain and forage unloaders to be installed in these units.

A breather system is used to equalize gas pressure inside the structures as ambient temperatures and external air pressures change.

The 20-ft. diameter storage structures, left, and the 31-ft., right, are now multipurpose, for forage or groin.

Up At Dawn,

Down At Dusk

Tom starts from "scratch" with his vegetables, raising them from seed, (top) and preparing seedbeds (right).

Tom Anderson has turned a love for growing vegetables into a thriving truck crop farm.

TOM Anderson has a knack for growing things. A green thumb, says his FFA advisor, Oscar Harris. But Tom puts much more than a green thumb into his thriving farming project. With ten acres of truck crops, much of it established three years ago, Tom's typical day demands steady work from hands, heart and head.

"Dad and I do all the work," says Tom, an 18-year-old senior at Ripley High School in mountainous West Virginia. "All," he adds, "until picking time—then we add four helpers."

Tom's ability to nurture plants to healthy production, plus incentive from winning the state FFA vegetable production proficiency award, prompted Tom to start his own small farming business. He set up the basics as an eighth grader and expanded to establish his FFA Greenhand project. The business succeeded, due in large part to determination.

"Dad said I'd go broke," Tom shares, smiling confidently with his father and business partner, Alvie. "Now he's in it with me. Last year I set so many vegetables I couldn't handle the load, so Dad quit most of his carpentry work job to help me. I guess I drug him into it."

"Tom gave us the idea for a family business," says Alvie. "We can all pitch in and help, but he oversees most everything. It's no small thing, either. In 1979, for instance, we grossed nearly $23,000 on the crops. Tom received a 50 percent share of $18,200 after expenses. And he plows a lot of that money back into the project. Now we're on an expansion kick."

Selecting and sharpening sturdy stakes is important for vine growth support.

On the 150-acre Anderson farm, also home for a 20-cow cattle herd, the acreage set aside for vegetable production is planted with tomatoes, peppers, sweet corn, celery, beans, broccoli, cabbage, lettuce, tobacco and watermelons. Tom sees his crop from seed to field, taking the plant growth process from germination through to harvest.

"We keep seed in sterilized soil in our greenhouse," he explains, standing inside the family-built unit. "For tomatoes, our main crop, we keep them here until they're six to eight inches tall, then we transplant them to the fields. Like most of the vegetables, we grow several different varieties of tomatoes. Last year we planted 10,000 seedlings on two acres. We've got to grow what consumers want."

When Tom saw his first stab at growing several acres of vegetables would produce a successful harvest, a new challenge arose: selling the abundant pickings. With diligent study, Tom began analyzing marketing options. He considered methods such as roadside stands and grocery store peddling, but decided to try his hand at a large, and very competitive, farmer's market in nearby Charleston.

"I discovered that everybody sells to stores," Tom shares, "and we're too far out in the country to build a successful roadside business. Now I wholesale to stores what I don't sell to the public off my truck in Charleston. I get up to 25 percent more for my product dealing in retail. Many store owners also come to the Charleston market to buy for their own businesses."

The marketing aspect of Tom's venture is vital but it takes a backseat to the

(Continued on Page 33)

What's in a Name?

By Steve Forsythe

ONE of the strengths and ideals of the FFA lies in the individuality of each FFA member. This can also be said of the individual FFA chapters across the United States. Have you ever stopped to think of the variety and history that comes with that name found on the back of your FFA jacket?

What follows is a glimpse of chapters whose names are associated with certain things in the Southwest and possibly your area, too. The character of these names is representative of chapters all across America. Perhaps you'll find that your chapter name is even more unusual or fitting than the ones we've found.

Indians

Many states have a strong Indian heritage and background. The state of Oklahoma is no exception with over 100 chapters having names associated with the Indians of yesteryear. As a general rule, chapters bear the same name as the local community. Some communities were named after famous Indian chiefs such as Lone Wolf, a Kiowa Indian chief, and Tishomingo, a chief of the Chickasaw who died while in captivity.

Such names as Cherokee, Apache, Arapaho and Commanche label just a few of the many chapters associated with our country's Indian heritage. In Texas, the Ysleta Indians were one of the earliest tribes and settled in what is now the lower valley of El Paso. The Ysleta FFA has a tradition of both Indian and Spanish.

Animals and Birds

Many chapters have a name associated with animals or birds. Some of these names were derived from the abundance of a specific animal or bird in the chapter's local area. Dale Gates, an alumni of the Buffalo, Oklahoma, FFA says his area of Oklahoma had an abundance of buffalo and much Indian influence—hence the chapter name. Other chapter names associated with animals are Beaver, Fox, Hereford, Texas and White Deer. This very small sampling represents a number of chapters across the states with unique and interesting names derived from wildlife. One might think of birds when seeing an FFA jacket with the name Kingfisher or Eagletown on the back.

People

Many FFA chapters are named after famous people or those who contributed much to a community on the local level. For instance, the influence of the railroad was great upon the lives of many people who helped begin a new life in a new community. The Killeen, Texas, FFA was named for Frank Killeen, an employee of the Santa Fe Railroad who helped establish a depot in that town. Choteau, Oklahoma, was named after Pierre Choteau, a French trader-explorer who established one of the first white trading posts in Oklahoma. The Iraan, Texas, FFA is named after ex-grocer Ira Yates and his wife Ann who in the 1920's deeded land for the town of Iraan. The list continues for chapters named after famous men such as John Marshal, Carl Albert, Lincoln, Eisenhower and Sam Houston.

Water

Different kinds, or characteristics, of water make for good names of chapters. The Stillwater, Oklahoma, FFA Chapter got its name from the community of Stillwater whose major water source is Stillwater Creek. Since the creek has a tendency to continue flowing when all other streams in the area are dry, the name exerts a positive image. The Sweetwater, Texas, FFA Chapter and the Waynoka FFA of Oklahoma share the same name, even though they don't sound the same. According to Dwight Hull, former Waynoka FFA member, Waynoka is a Cheyenne-Arapaho word that when translated means "Sweetwater." Chapter names such as Webbers Falls, Pond Creek, Sulphur Springs, Big Spring and Lake Dallas are only a few of the many chapters whose names involve water of some kind.

Other Towns, States and Countries

Chapters are found with the same name in many different states, and some even represent the name of a city or nation. The Prague community located in central Oklahoma was settled by many Czech people in the early 1900's, says Don Brown, a former FFA advisor there. Such chapters as Dover, Ames, Boise City, Geary, Helena, Cleveland, Delaware, Kansas, Miami, Lexington and Panama are found active and flourishing in many parts of the country.

Forts

Communities with names beginning with "Fort" are also common. The Fort Gibson FFA is believed by some to be located in the oldest town in Oklahoma. Many chapters with the name of Fort owe their chapter's title to the need in their state long ago to protect white settlers from Indians. Also, many trading posts were established by the French and explorers from Spain and Portugal. Fort Supply, Fort Towson, Fort Cobb and Fort Bend FFA Chapters are but a few examples.

Mountains

Chapters whose names are associated with mountains include Mount Park, Mount View, Mountain Home, Mount Ida, Mounds and Canyon. The earth's topography is often used to name chapters and communities. Such chapters as Prairie Grove, Plains, Bluff City and Mesa attribute their name to the earth's structure.

Trees and Flowers

Red Oak, Grove, Oaks and Rosebud Lott are just a few chapters whose names are associated with trees and flowers.

One chapter whose name is very appropriate and related directly to agriculture and the FFA is the Agra, Oklahoma, FFA Chapter. John Golliver, local advisor, says the community derived its name from once being a major local center of agricultural trade and commerce.

The classification and names of chapters associated with specific things could go on and on and shows the uniqueness and individuality of the local FFA chapter. This distinctness helps make a stronger, unified national FFA organization. Regardless of the size of the chapter or its name, we're all in this world together for a better FFA.

Steve Farsythe is a graduate assistant in the department of Agricultural Engineering at Oklahoma State University in Stillwater.

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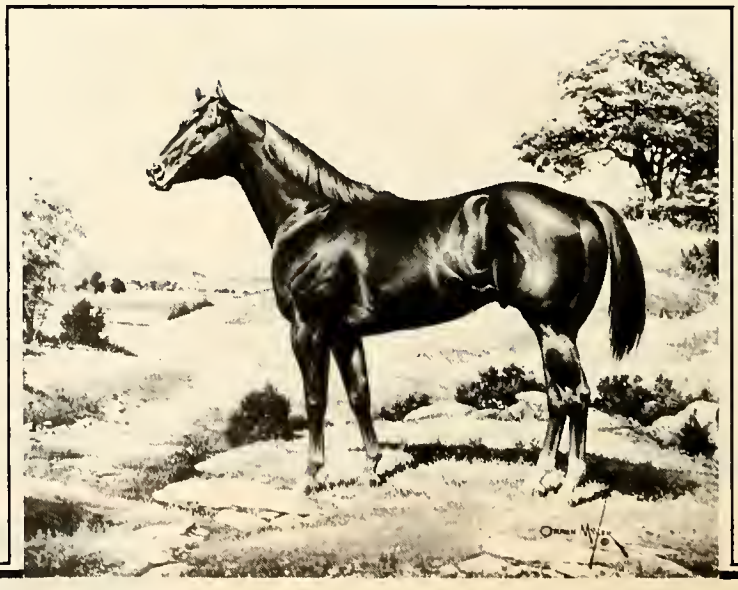


Up at Dawn

(Continued from Page 27)

planning and labor devoted to producing a good crop.

"As long as you've got good quality food, it'll sell," vouches Tom. "I'd like to get big enough to take a semi-trailer load somewhere and sell but it all needs to be quality stuff. And that's where attention to your plants pays off."

To achieve an optimum growing environment for plants, most of the Anderson ground is tilled and worked by hand to control weeds and build a proper soil structure. Much of the ground is mulched with hay and plastic, also a weed control measure. A strict spray schedule is followed and close attention is given to ideal picking times. Such management practices, coupled with devotion, keep both plants and business healthy.

"When I'm in school," Tom says, "I can only farm four to six hours a day. But in summertime, it's up at dawn and down at dusk. With our operation and as little help as we hire, we have to put in the time."

"I've never seen a harder worker," says Ripley FFA Advisor Harris, a coteacher with Mike Kubina. "In vegetable production you don't put things off. Tom does chores when they need to be done. His accomplishments, such as establishing a farming program at an early age and achieving the State Farmer degree, are self-made. He's very deserving of his success and it comes as no surprise."

Tom says vocational agriculture has mainly confirmed his already-adapted methods of production but says FFA has

Tom adjusts his homemade sprinklers.

bolstered his farming ability with an important asset.

"I've gotten much instruction from Mr. Harris and the ag textbooks I've used," shares Tom, "but bookwork doesn't teach you how to work with people in your community or deal with customers. FFA continues to provide me with confidence when it comes to decision making, talking with people and keeping close tabs on my business books."

Whether it's transplanting thousands of pepper plants, staking hundreds of tomato stalks, building spray booms or clearing land for more planting acreage, Tom says he completes his chores with a goal in mind: making a living in farming. After graduation, up at dawn and down at dusk will likely be Tom's regular business hours.

"I know that we have a profit-sharing agreement, Son. If there should happen to be any profit I'll certainly share it."

How to Survive in a Blizzard

IN any state that gets snow it can be dangerous to be caught in a blizzard while driving.

In most areas of the nation an individual would just have to walk from the car to the nearest home. But there are still some isolated sections where if a car were suddenly stranded because of snow, it would be a long way to help.

Consequently, most of the time in a situation of a blizzard, it is safest to stay with a car. People have died when just a few hundred feet from shelter in a blizzard because they became disoriented and couldn't find the shelter.

One of the first steps to survival is to be prepared. Begin by making sure the car contains a survival kit—the kind of survival kit you make yourself. Make sure that there is a kit in every family member's car. The kit should contain first-aid supplies such as bandages, iodine, first-aid cream and aspirin. It also would be good to have facial tissue, flashlight, knife and hand tools. A large old coffee can might be used to hold the items neatly.

It should also hold some raisins and candy since these are kinds of food that could keep for a long time in the trunk of a car and still provide a lot of energy to keep warm.

The can may also hold extra flashlight batteries, heavy string, wire, knife, matches, pencils and any other items. The items can all be packed into the coffee can and stored in the trunk of a car.

Have a tow chain and battery booster cables, a Virginia Tech Extension specialist suggests, adding that many parts of the car can be used to help it get going again if it is stuck in the snow.

The hubcaps, sun visors and air filter covers can be used as shovels to remove snow from around the wheels.

For someone caught in an isolated area, a signal for help might be needed. The spare tire and some gasoline to ignite it will make a good signal. Use a wire to dip a rag into the gas tank and spread the gas on the spare tire from which the air has been let out. Carefully ignite it and it will burn for a long time creating both heat and black smoke.

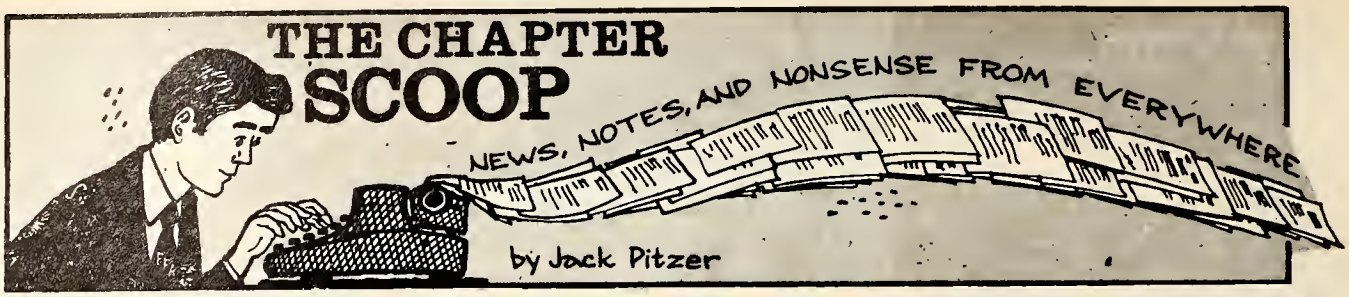
If there is an extra can of oil in the car, pour the oil into the hubcap and ignite it. It will burn with dark smoke for a long time and attract attention.

When staying in the car while it continues to snow or the snow drifts, be sure to shovel any snow away from the exhaust pipes before running the engine for heat. Also, since snow and ice can seal the windows and other small openings in the car where air is coming in, make sure there is ventilation before starting the engine. Don't remain in one position. Get up and move around often. It keeps the circulation going.

The specialists remind that many of the parts of a car can help survive a blizzard.

Every hose converts to a siphon for getting at gasoline. The dip stick is a skewer for hotdogs or toast. The seat covers could be extra blankets. The hood can be removed and used as a heat reflector behind the fire. Convex gauge lenses or the dome lights glass can be a sun-focusing fire starter when there are not matches.

Remember, said Glen H. Hetzel, Virginia Tech Extension specialist, the car and its parts are expendable, it is lives that may need to be saved.



When national BOAC winners, *Monroeville,* OH, returned from Kansas City, they were welcomed with a party hosted by mothers and alumni members.

N-N-N

Fun for fathers as well as their sons at *Chief Washakie,* WI, FFA steak fry is bucking barrel.

N-N-N

To teach members how to tie a tie for official dress, *West Marshall,* IA, members made a video tape of how to do it.

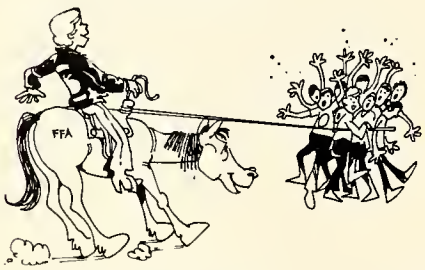
N-N-N

A chicken plucking contest was sponsored by *Coe-Brown Much-To-Do* FFA at Northwood, NH.

N-N-N

Over 500 arrests were made by *McKay* FFA in OR and the people jailed during the homecoming carnival.

N-N-N



The second annual "officer round-up" for chapter officers in the Orange Section in CA was held at *Fullerton.* After meeting, FFA'ers ate pizza and played water polo.

N-N-N

Santa Claus works for *Tempe,* AZ, FFA when they have party for mentally and physically retarded children.

N-N-N

Prizes in FFA turkey shoot for *Mandan,* ND, members were real turkeys—one per class.

N-N-N

They publish a year-long schedule of FFA events for *Loudonville,* OH, members and send a copy to the parents for their calendar at home.

N-N-N

Freshmen in *Heath,* KY, have final contests in creed speaking and tractor driving at parent night.

N-N-N

Every member of *Colstrip,* MT, Chapter owns an FFA jacket—even Greenhands.

N-N-N

Parents of **Glenn Pollack,** an *Oshkosh West,* WI, member were named as outstanding farm family at the state fair by the governor.

N-N-N

Greenhands for *Lebanon,* CT, picked FFA popcorn and put it in a crib to dry.

Fright night was financially profitable for *Zillah,* WA, earnings and savings committee who showed horror movies. But the committee took gas for their choice of movies.

N-N-N

Imlay City, MI, FFA has been given 11 acres to convert into a wilderness trail.

N-N-N

San Luis Obispo, CA, members helped wash and fit donated animals to the local animal shelter for an auction to raise money for building improvements.

N-N-N

Bertha-Hewitt, MN, FFA will pick up and recharge fire extinguishers for local citizens at no charge.

N-N-N

A pizza sale raised the $1 per member, total of $180, so *Luxemburg-Casco,* WI, Chapter could send it as their support for the Hall of Achievement.

N-N-N

Advisor **Pete Edgecomb** in *Limestone,* ME, was elected to the city council there in November.

N-N-N

Parents and members played ping-pong, tennis, horseshoes and bingo prior to hamburger fry and degree ceremony night for *Webbers Falls,* OK.

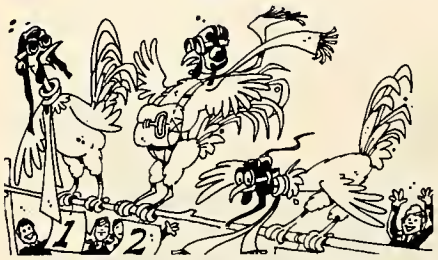
N-N-N

Springs Valley, IN, Chapter's float won theme award for Sing America Sing.

N-N-N

Guest speaker's topic for *Platte,* SD, Chapter was trapping fur-bearing animals. Speaker's topic at *Highland Home,* AL, meeting was gun safety and game laws.

N-N-N



Liz Kramer sent word of *Trenton,* MO, FFA chicken fly at chapter social.

N-N-N

London, OH, FFA bedded down the school yard with straw as part of a reseeding project.

N-N-N

Teachers got to try their hand at all-school livestock judging contest hosted by *Verdigre,* NE.

N-N-N

At Sadie Hawkins Dance sponsored by *Douglas,* OR, Chapter, couples posed with Marryin' Sam for school yearbook.

Gross as it sounds, *Andalusia,* AL, FFA members took all the top prizes in county fair tobacco spitting contest.

N-N-N

FFA at *Scituate,* RI, formed the largest contingent in the town's 250th anniversary parade with tractors and a float.

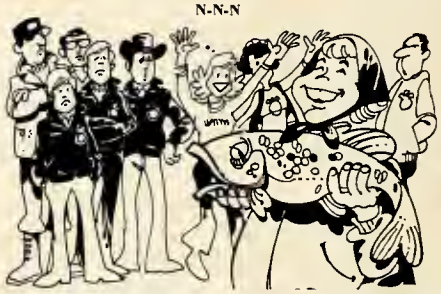
N-N-N

A snowmobile class will be taught by *Paw Paw,* IL, FFA in order to qualify for a state issued license.

N-N-N

Tulare Union, CA, FFA has an annual beef and bean feed.

N-N-N



On the *Fowler,* CO, four-day and night fishing trip up into the Rocky Mountain wilderness area, the girls' sponsor, Eleanor Barr, caught the biggest fish.

N-N-N

Lamar, CO, sold 9,100 pounds of citrus. Great place to use official FFA Calendars—one calendar in each box of fruit to say Thanks from FFA.

N-N-N

Winnings of *Dyersburg,* TN, members for 1980 at fairs and shows totals $8,300.

N-N-N

A new physical fitness course for *Broken Arrow,* OK, is project of FFA.

N-N-N

Mark Gutshall, *Cumberland County,* PA, bought a pair of the new FFA suspenders at the National Convention from the FFA Supply Service. Better get yourself a pair.

N-N-N

Gift bags of candy and fruit are distributed to nursing home residents by *Victoria-Stroman,* TX, FFA.

N-N-N

In order to save money for their school, *Fort Hancock,* TX, FFA builds school equipment like bench press, stadium press box, a basketball cage and a concession stand.

N-N-N

Does your chapter still have **Doug Rinker's** poster up in the classroom for a reminder to have a 10 PLUS gain in chapter membership? *Houston,* MN, decided to get the 10 new members so they could take Doug's picture down!

LEARN TO FIX SOMETHING BIGGER THAN THE FAMILY LAWN MOWER.

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NAVY. IT'S NOT JUST A JOB, IT'S AN ADVENTURE.

College and Your Career

Unsure of life after college? Join the crowd—then prepare for one of life's great discoveries.

By Russell Fornwalt

MANY students start college with no idea what they will do when they graduate. Others begin with only vague vocational notions. Some have just a little idea about life after graduation.

Let us say you have tentatively decided on farm management, mining engineering, medicine or the missionary service. College will soon confirm the wisdom of your choice, or convince you to explore other fields along with the one you've chosen.

One purpose of college is to help you make a realistic appraisal of yourself in relation to today's world of work. In our constantly changing world of work, occupations are coming and going all the time. Of course, the main purpose of college is to help you prepare for the career of your choice.

Let us see, then, how college can help you make an intelligent vocational decision.

Beware the Stampede

First, a word of caution is in order. Do not be pressured or stampeded into any occupation by talk of shortages, prestige, rapid promotions, easy work or "that's where the big money is." Do not allow anyone—professors or counselors (or even parents)—to "sell" you on a career. If you do, any regrets ten years from now will be yours, not theirs.

The only valid criterion in choosing a career is: What have I to give? To select on the basis of "the most pay for the least work and the longest vacations" will not be in your best interest; nor will it serve society as a whole. It may only amount to a waste of your time and talent and result in failure and frustration.

You will have a wide variety of electives to choose from in making up your course of study. This is especially true in liberal arts colleges. Offbeat and unusual courses will arouse your curiosity. Others may appeal to you instinctively.

However, do not choose an elective because it convenes late in the morning, is on the first floor of Cram Hall or requires no homework. When chosen on the basis of genuine interest, an elective can lead straight to a meaningful career.

Success in Specialties

The world of work with its computers and automation is vastly different from what it was a century ago. Many jobs have completely disappeared. Hundreds of new ones have come into existence. More and more the trend is toward specialization whether it is in agriculture, law, medicine, teaching, social service, engineering, accounting or another field. But one thing is certain. A college degree (if not two or more) is virtually a must if you want to climb today's vocational ladder with all its competitive rungs.

Most all colleges are adapting their curricula to meet the demands and the needs of modern society. Should you so desire, you could become a specialist in agricultural cooperatives, ecology, water pollution research, product packaging, oceanography, orbital mechanics, digital computer systems or even configuration management. College will keep you abreast of the occupational changes and trends.

College also gives you the opportunity to put certain careers on trial. If you have agricultural journalism in mind, for example, join the staff of your college's magazine or newspaper. Experience as a reporter, book reviewer, movie critic, advertising solicitor, art director or circulation manager can help you decide whether to pursue that type of work.

Membership in the debating society can test your potential for a career in law. It can highlight your need for greater alertness, clarity of thought, concentration, better diction or more intensive research. One young man gave up the idea of becoming a lawyer after taking part in a series of debates. He was persuasive enough but lacked the necessary flair for ferreting out facts. He decided to go into sales management instead.

Set the Books Aside

You can also give careers a test now by taking advantage of your school's extracurricular activities. Try out for acting, band or orchestra leadership, music arranging, radio or television announcing, movie scenario writing, selling, photography, social work, cartooning or even politics if these areas are of interest. Many successful musicians, athletes, coaches, artists, actors and clergymen have actually launched their careers while in college. They did so by taking part in an extra-curricular program.

Many educators regard such programs as a very practical form of vocational guidance. It will pay you to join clubs, societies, groups and teams as your schedule allows. But remember your first order of business in college—studying.

Laboratory courses also provide practical vocational guidance. In the "chem lab," for example, you will be a chemist. You will search and research, do trials, make errors and calculate. On a geology field trip, you will be a practicing geolo-

(Continued on Page 40)

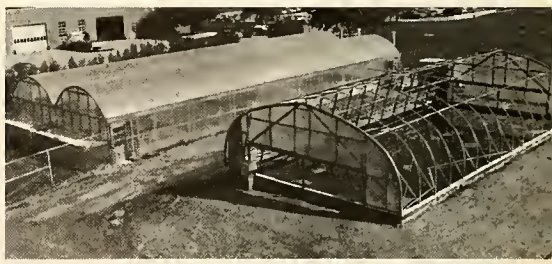
"So you've decided to become a drop out . . . welcome to the club!"

Russell J. Fornwalt *is a vocational counselor living in New York City. He has authored several career-oriented articles for* The National FUTURE FARMER, *including* College Success Secrets *(April-May, 1979).*

The sun glints on a grain-drying project at the Ohio Agricultural Research and Development Center in Wooster which uses two polyvinyl plastic solor heat collectors. Below, three types of solar collection systems ore tested in grain-drying research at the U.S. Grain Marketing Research Center, Manhattan, Kansas. A flat-plated collector, center foreground; the triangle-shaped unit on the left, containing 30 tons of rock to store heot; and the 100-foot-long air inflated plastic tube collector, upper left.

USDA Photos

Trapping the Sun's Energy for Agriculture



The solor pond, above, developed by Ohio Ag Research and Development Center heats the greenhouse module nearby. Researchers ot the South Central Poultry Research Lab, Mississippi State, hove installed solar collectors on a poultry house. The collector in the foreground heats the ventilation oir used in the house during the daylight.

FARMERS, more than most people, have always had to rely on the sun, as well as the other forces of nature.

Not too many years ago, crops stood in the field, were stacked or windrowed, or put in a crib to be dried by the sun and wind. But with today's more efficient machinery, more acres can be harvested in less time, with less losses to pests and adverse weather. By doing this, grains are often harvested with a high moisture content, so they must be artifically dried before storage.

More fossil fuel is now required to dry corn than is used to produce the crop. In 1956, only 14 percent of the corn crop in Illinois, Indiana and Iowa was artificially dried. Today, that figure is around 70 percent.

As the supply of fossil fuel continues to diminish, the cost for many agricultural uses may become prohibitive. We must turn again to such alternate energy sources as the sun for at least part of our agricultural energy. Research programs, financed by the Energy Research and Development Administration and coordinated by USDA's Agricultural Research Service (ARS) and Cooperative State Research Service, are doing this.

Scientists in ARS and state agricultural experiment station laboratories are experimentally collecting and using solar energy to dry corn, rice, grain sorghum, wheat, soybeans, peanuts and tobacco. They are also exploring more efficient ways to dry hay in the field and in barns.

Animals, too, will benefit from the solar energy research. Solar energy is being tested to heat and cool milking parlors and to heat poultry and swine houses, along with drying poultry manure to faciltate handling.

Other scientists are studying how to heat and cool greenhouses and rural homes with energy from the sun.

Soon, because of this research, solar collectors in many forms will trap the sun's energy to benefit not only farmers, but all the earth's inhabitants.

A Farm With One Season

The year round growing season in south Texas offers members of FFA a continual classroom.

By Jeffrey Tennant

Photos by Author

A coloring process will replace the green in the soon-to-be-picked oranges.

Machinery must be maintained to withstand the Valley's long growing season.

WHILE December winds swirl frigid air around most of America's farmers and ranchers, Roland Dreibelbis peels his shirt and gets on with the tomato harvest. Around him, bordering the sprawling stretches of Texas fields, palm trees sway to the beat of pounding tractors and harvesting machines.

This is Texas, far south—an oasis for farmers who enjoy the region's multiple growing seasons and abundance of irrigation water from an unselfish Rio Grande River.

Roland's tie to this productive farmland goes beyond the energy he's burned here. The 20-year-old Pharr-San Juan-Alamo FFA member works the same soil farmed by his grandfather, a man who saw a multitude of crops planted on the family's acreage.

"We've planted just about anything and everything," says Roland. "Cantaloupe, tomatoes, onions, cucumbers, flax, millet, sweet corn, oranges, grapefruit—even bananas. Now, though, with diesel and labor costs skyrocketing, we've gone to less labor intensive crops. Vegetables demand a great deal of labor."

Roland, father Jimmy, mom Marlene and older brother R.L. consider cotton and onions as their primary crops. Some 30 acres of tomatoes keep R.L. busy with Mexican peddlers who come across the border when supplies exhaust. Sixty-five acres of early oranges and red grapefruit, along with several acres of cantaloupe and cucumbers, round out the Dreibelbis plantings for the "winter season" of 1980-81.

"We're not an extremely large farm for this area," shares Roland, speaking of Hidalgo County with its 64,200 acres of citrus growers. "But," he declares, "we're big enough to keep the family busy."

Two permanent employees help in the family operation. Brother Jay, 22, pitches in when duties as vocational agriculture instructor at Pharr's high school don't prohibit. Jay's wide variety of skills are valuable on the diversified farm.

"You can grow anything you want down here," says Sidney Ford, a co-teacher with Jay and Pharr's FFA advisor for 15 years. "Growing it is not the problem—selling it is."

"Once," admits Roland, illustrating his advisor's comment, "R.L. took 400 boxes of cucumbers, tomatoes and peppers to Houston and sold them off the truck. We found out that's not the way to do it unless you have lots of time on your hands.

"Now we deal mainly with packing sheds. They are our brokers. They harvest and sell the crop for us, taking out their expenses and passing what's left to us. The key is to get the product to packing sheds and processed before rotting."

Spoilage must constantly be reckoned with in this highly productive region.

With farmers in the Rio Grande Valley producing two crops annually of vegetables such as tomatoes and cucumbers and, in a good year, an abundance of citrus, market demand conditions often spell financial disaster or riches.

"For the last two years we've gone with onions as our big crop," says Jim, "and we've lost money. Two years ago, people made good money on onions. But lately there's been an oversupply—everybody has had good crops. If we'd planted everything in onions to get rich, we'd be bankrupt. That's why we're diversified farmers—don't put all our eggs in one basket."

Valley farmers must maintain a constant awareness of the nation's supply of fruit and vegetables if they desire a forecast of their own prices. The growers

Jim Dreibelbis, left, Sidney Ford and Roland agree: Good cotton this year.

After tasting these wild bananas, Roland and Advisor Ford ponder a new crop.

"keep an eye" on Florida, Arizona and California, three other states producing major quantities of citrus and vegetables. If a freeze or other natural occurrence damages a crop in one or more competing states, the national market price can shoot up overnight on the affected crop. Conversely, overabundance in the national supply can suppress prices to a point so low that harvest becomes a chore merely to help offset production costs.

"For years," says Jim, "Texas farmers couldn't make money on early oranges so many people pushed out their orchards. People couldn't even afford to disc and irrigate. But today they're a gold mine—Florida froze out."

Because of potential disaster if a freeze or spoilage ruins produce, the harvest of many crops in the Valley begins several weeks before the crop naturally matures. American consumers are virtually assured of fresh fruit and vegetables year-round because of warm-climate farming, but the produce may lack some in taste due to the marketing scheme.

"There's no way," says Ford, "a consumer will get a vine-ripened fruit from this area. Oranges aren't to their peak vine ripeness and flavor until around the first of November. Grapefruit is halfway decent in December and very good in mid-January. However, fruit is usually harvested, run through a color-add process, and shipped after it meets USDA standards of maturity—mainly a sugar requirement test. Marketing usually begins around the first of October and runs through February. There's usually a higher market price for early oranges; they look good after the color-add but they're just not as tasty."

"The fruit leaves here green," adds Roland. "Look at Texas grown tomatoes in the stores—they're likely to be a pale red. They'd never make it to the market if they left here ripe. Consequently, lots of people don't know what a vine-ripened tomato tastes like."

The intense pressure to market properly drives Valley farmers to maintain skills in the distribution chain of their own products. In the area's vocational agriculture programs, students are exposed and drilled early in principles of production and marketing.

"I enjoy farming," says Roland, "but there are times when I feel I know nothing about it—like I'm in a new world. One day may be a breeze but the next day you don't know where to turn. FFA and vo-ag showed me much about finding proper direction in those question mark turns."

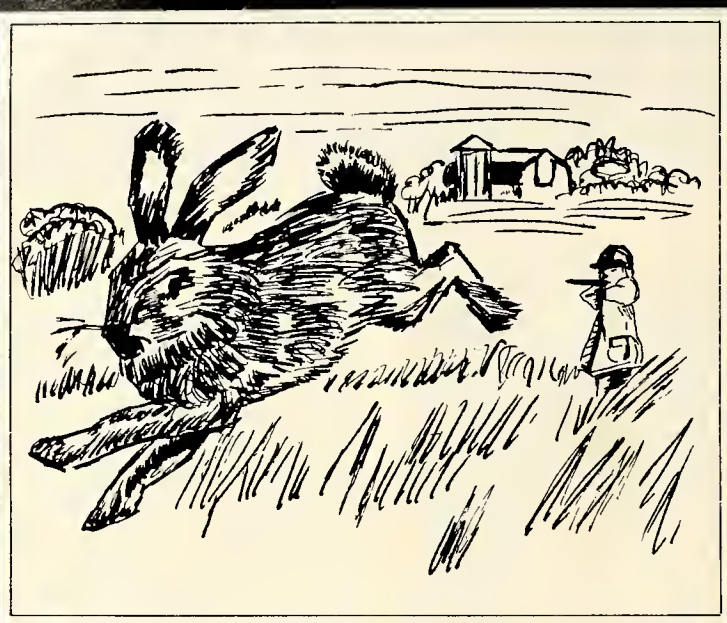
Each day is a learning process for Roland. For him, it's farming year-round, with many business decisions interspersed. Roland admits he certainly doesn't "know it all"—a good attitude to have in this region of farming.

"If all the FFA members and vo-ag students in our chapter were comparable to these boys," says Advisor Ford of the Dreibelbis brothers, "and the family support as strong, we'd have the best FFA/vo-ag program in the nation."

With that kind of reputation, plus a will to work and learn, Roland will likely straighten most of his own curves in his road to farming success.

Jay Dreibelbis and Pharr FFA member Barry Risinger inspect the chapter's orange grove, a kind of outdoor lab.

Shooting Is More Fun When It Costs Less



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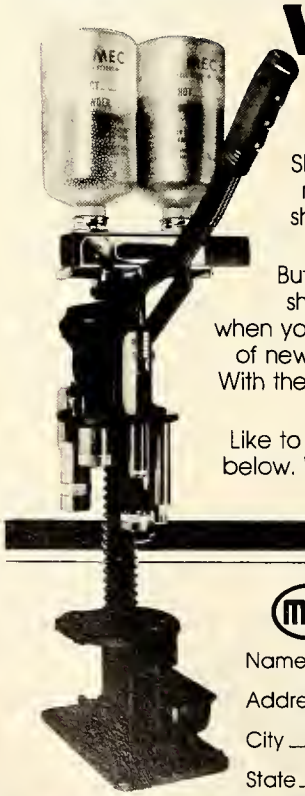

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College

(Continued from Page 36)

gist. You will see and feel rocks, minerals and old fossils. Only in the laboratory, or "the practicum," can you get a taste of "the real thing" beyond textbooks.

From Jobs to Careers

Part-time jobs in college can also help you decide on what career to enter. One girl became a librarian as a result of working evenings in the college library. Another student worked after school in the chemical laboratory. His job was to wash equipment and put it away. He became so fascinated with all the test tubes and other gadgets that he chose to become a chemist.

Your part-time job in the bookstore, agricultural research station, cafeteria, gymnasium, dental clinic or infirmary might lead you to a career. You could well advance from mailroom boy in the agriculture building to college dean. Such rises have been done!

The beauty of college lies in the vast and varied opportunities for exploring, expanding and expressing your interests, personality and talents. You will be exposed to an exciting array of experiences. Each can play a part in your ultimate career choice.

Do not be alarmed if you find yourself changing your vocational goal year after year or even every other month. This seems to be par for the career course for many young people. And each time you change your career goal, you will come closer to reality—closer to the vocation that is meant for you.

If college prolongs your final choice of a career, as is often the case, it may be all the better for you. You will have discovered yourself and where you best fit in the great world of work.

"What we're looking for is a recent high school graduate with ten years experience!"

The Heritage of FFA Land

General Washington's beloved Mount Vernon mansion (above) rests today without the bustle of Washington's court, but still neighbors the FFA Center (below).

THE National FFA Center is located on the original Mount Vernon, estate, home of George Washington, one of two patron saints of the Future Farmers of America. (Thomas Jefferson is the other one.)

The northern Virginia property that became the famous Mount Vernon Estate was patented by George Washington's great-grandfather in 1674. Augustine Washington willed the estate to Lawrence, his eldest son by his first wife. Lawrence named it Mount Vernon for British Admiral Vernon under whom Lawrence had served in the Caribbean.

When Lawrence died, his will named his younger half-brother, George, as his residuary heir after his widow Anne, who was childless. George acquired the widow's interest, and became sole owner of the 2,126-acre estate. During George's ownership, the estate grew to 8,000 acres, consisting of five independently operating farms, one of which was the Dogue Run Farm (which included the current FFA property).

Washington married a widow, Martha Custis, in 1759. General and Mrs. Washington brought their two youngest children, Eleanor and George Washington Parke Custis, to live with them at Mount Vernon. Then in the early 1790's, Lawrence, the son of George's only sister, Betty Lewis, came to live at Mount Vernon.

On February 22, 1799 (Washington's last birthday), Eleanor (Nellie) and Lawrence Lewis were married at Mount Vernon. The General gave them Dogue Creek Farm and his grist mill and distillery, and suggested they build their house on Gray's Hill overlooking Mount Vernon, the Potomac River, and now the FFA Center).

George Washington said, "The life of a husbandman is the most delectable."

The old mill on the Mount Vernon property never was very successful so George Washington built a new mill. Washington took great interest in the building and operation of the mill. The general sold his grain locally and exported it to England and the West Indies. It was on a ride to the mill in December, 1799, that he reportedly caught the chill that resulted in his death a few days later.

The mill was reconstructed in 1932-34 by the Civilian Conservation Corps. The mill was leased by the Future Farmers of America from the Commonwealth of Virginia until 1960, and was open to the public except for the World War II years. It is now a Virginia State Park.

Lawrence Lewis and his bride lived at Mount Vernon while their home, now Woodlawn Plantation, was being built on Gray's Hill.

After the death of the Lewises, their son, Lorenzo, sold the plantation to a group of Quakers from Pennsylvania and New Jersey in 1846. The Quakers were soon joined by John and Rachel Mason who had been in business with them in the north. The Masons bought Woodlawn mansion and some of the land from Quakers. John Mason's son Ebenezer, built Independence Lodge on the property that years later would be purchased by the FFA.

Woodlawn was next owned by the Packard estate, makers of the Packard automobile. Jim Davidson, husband of Alaska Packard, farmed the property until his death in 1929. After Mrs. Davidson's death in 1934, the property was offered for sale. It was purchased by the Future Farmers of America in 1939 as a site for a national camp and center for the FFA in the Washington, D.C. area.

Two barracks were built, one for lodging and one for a dining-recreation hall. The camp was not used during World War II, and after the war it was decided that a supply service should be started in the barracks buildings. Later *The National FUTURE FARMER* magazine office joined the supply service in the barracks, which had been converted into offices and warehouse.

Ground was broken for a new building in 1956; it was dedicated in 1959. Independence Lodge and the barracks were dismantled. Later the offices of the National Advisor, National Executive Secretary and their staffs were moved from Washington, D.C. to the National Center and subsequently two more adjoining buildings were constructed. *(By Harriet Verzagt, FFA Archivist)*

Teacher Shortage: A Worry for FFA?

TEACHERS of vocational agriculture have been called an "endangered species," and with good reason. The profession's numbers have steadily decreased. Enrollment in agricultural colleges has more than tripled since 1960, yet the number of qualified graduates in agricultural education has risen only 35 percent.

The vocation's demise is certainly not imminent, nor is it forecasted. However, the continuing teacher shortage can have grave consequences on FFA.

The lack of qualified instructors, consequenting in either ill-fitted teachers or none at all in some vocational agriculture programs, has already quelched the drive and enthusiasm of once-active FFA chapters. But here's worse news: Based on 1978-79 figures compiled by Dr. David Craig, the shortage caused the virtual killing of vocational agriculture departments in nearly 100 U.S. high schools.

"In school year '80-81," adds Dr. Craig, a professor in the University of Tennessee's vocational technical education department, "some 60 departments will not operate because of the shortage, an increase of 23 over the last year."

"Emergency" teachers, called to duty to fill a sudden void, often perform brilliantly to keep a program alive. But substitute teachers and part-time FFA advisors cannot be a cure-all.

The simple law of supply and demand explains the shortage, (too many positions, not enough takers), but that's where common-sense economics ceases. Normally, too much demand for too little supply means the items in supply become increasingly valuable, often very costly to those on the demand side.

Not so in vocational agriculture teaching. According to Dr. Craig's research, demand for teachers has stabil-

(Continued on Page 43)

Table 1
A Comparison of the Demand and Supply of Vocational Agriculture Instructors
(Tables prepared by Dr. David Craig)

Year	Total No. of Positions	Teachers Needed But Not Available September 1
1973	11,134*	276
1974	11,578*	292
1975	12,107*	211
1976	12,482*	214
1977	12,707*	227
1978	12,787*	189
1979	12,747*	136
1980	12,589	127

Teets' dedication shows in his students' performances and the FFA's popularity.

The Modest Mountaineer

Giving his all to FFA is a way of life for this dedicated teacher in rural West Virginia.

By Bob Teets

HE'S built like a football player, tanned like a farmer, skilled like an artist, and trained like a master. He always has a shirt-pocketful of pens and pencils and tire gauges and anything else that will fit there.

He is the epitome of vo-ag teachers.

But when it comes to getting him to talk about himself, Dwight Moyers is as shy as a cottontail during rabbit season.

The accomplishments (there have been many) of Dwight's Bruceton, West Virginia, FFA Chapter and the successes (more than a truckload) of its members would make anyone get a big head—anyone, that is, except Dwight.

"It's not for me, it's for them," he says of his chapter's success. "I don't even think of what it does for me."

The modest instructor is not one to say something just because it sounds good; he *lives* what he says and believes. Having taught for 25 years, first in Ohio, then in West Virginia, Dwight holds strong beliefs about a teacher's responsibilities to his students.

"If you don't believe in FFA and vo-ag yourself, don't expect to go very far. You've got to work with these kids. You might know that something needs done, but if you don't get out there and work with them, it still won't get done."

In short, he believes "you don't talk at 'em, you work with them." Further, he's sold on the idea that the FFA fulfills many a young person's dream of independence.

"When students come in (to the FFA program), they aren't used to doing things on their own. They've been told what to do all of their lives. But here they get into a program where they're given a chance to prove themselves. And the more they do, the more recognition they receive, and deserve. It really gives all of the members confidence."

Obviously the Bruceton FFA Chapter isn't lacking in confidence. Their fortitude shows in many areas, but is most prevalent in the number of projects the chapter tackles.

In one project, the group plans to generate electricity from the Bruceton Dam. They hope the experiment, which should result in a spotlighted dam area, will spur local residents and the power company into undertaking a larger project designed to provide additional energy for the community. Another project involves fitting model tractors with small scale, working engines. If enough interest can be found locally, the chapter hopes to sponsor mini-tractor pulling contests and similar competitions.

Besides dedicated hard work to chapter projects, individual and team awards nabbed by this chapter look like a list of all that can be achieved in the FFA. The chapter's leadership programs are strong, too, as exemplified by Jim Eisentrout, 1979-80 state president.

When Dwight is asked what makes Bruceton FFA special, he quickly states that the members make it go. But after you chat with Moyers, you know where the extra bit of "oomph" comes from

Bob Teets, *now a professional writer, is a former member of the Terra Alta, West Virginia, FFA.*

that elevates this 40-member chapter above many others. It's in one man's dedication to his chapter.

Dwight recently took a group of his students—who all had chickens they wanted to enter—to a poultry show and auction in a nearby county. He made sure that each of his students received a fair price for their chickens. "I had a buyer for every one of those chickens before we went down there," he proudly states.

But there's more to the story.

His students received reasonable prices, but Dwight saw that many other pupils from other areas weren't getting very good returns. So, without so much as a cackle, he started buying chickens himself. Before it was over, he had bought a large flock of hens just because "I couldn't stand to see them not bring a decent amount."

Dwight asserts, "There's nothing else in the world to do but teach vo-ag," and his devotion proves it. When he first started teaching in West Virginia, he taught in three towns separated by about 60 miles of rugged highways—all in the same day.

Then, the next year, he taught a half-day in Bruceton and spent the rest of the day with the Young Farmers organization in three other towns that require a 60-mile round trip. Though such a schedule demands an extraordinary amount of dedication to see it through, Dwight admits, "That was the hardest thing I ever tried."

His schedule is a bit more organized now as his day is split between the vo-ag program and the Young Farmers group, both located in Bruceton.

What's it like to be married to a vo-ag teacher? Dwight's exuberant wife, Rose Ellen, says, "Oh, it's exasperating sometimes, especially in the summer, because I never know when he's coming or going—or where he is when he *is* coming or going." But she is quick to add, "It's still been a lot of fun."

When asked what they would change if they could back up the clock, their answer reflects contentment and hints of anticipation.

They look at each other and smile, the answer obvious even before they offer it: "Not a thing."

Shortage

(Continued from Page 42)

ized but the supply has been short for at least 14 years. Yet job benefits and incentives, financial and professional, have only slowly been improved or implemented in order to interest more recruits.

Craig's report shows other occupational areas, such as agribusiness, competing strongly for agricultural education graduates. Less than 60 percent of available graduates in agricultural education go on to teach. (See Table 2.) Even then, once a teacher is placed, a turnover rate of over 10 percent indicates teachers are plucked from the classroom to entirely new fields of labor or graduate study.

Such findings are by no means hidden from high school students seeking careers, nor do they paint a completely dismal picture. The teacher shortage and its causes should not discourage a high school graduate from pursuing a college curriculum in agricultural education. Conversely, such facts only amplify the limitless, readily available opportunities awaiting graduates in agricultural education.

Set your priorities in selecting a career course. Remember that financial rewards should be low on a job selection list. Today's college graduates in fields from sociology to law will not, as a rule, land high-paying jobs. But college students are seeking their place, directing their ambition, and most important, following their noses to satisfying careers.

Graduates qualified to teach vocational agriculture are obviously in demand—both as teachers and as leaders in other careers. You couldn't ask for a shinier horizon. "If every vo-ag teacher," says Dr. Craig, "saw just one of his or her students graduate in agricultural education every two to three years, the shortage would be eliminated."

The following story tells of one teacher who has decided to stay with his profession. He has inspired his students by actions alone. This teacher's rewards have been great in number, mighty in satisfaction.

TABLE 2 PERCENTAGES OF AGRICULTURAL EDUCATION GRADUATES ENTERING VARIOUS OCCUPATIONS 1970-1980

	1975	1976	1977	1978	1979	1980
No. Qualified	1,660	1,697	1,726	1,801	1,631	1,583
Placed in Vo-Ag	999	1,043	1,052	1,033	873	822
Teaching Ag.	60.2	61.5	61.0	57.4	53.5	52.0
Ag. Business	7.5	6.3	7.5	8.6	14.2	14.5
Grad. Work	9.8	8.8	6.1	9.0	8.9	9.5
Other Work	9.9	11.0	13.6	13.7	8.7	8.7
Farming	8.2	8.2	8.0	7.3	8.4	7.6
Unemployed		(figures unavailable)			2.5	3.8
Other Teaching	3.3	2.5	2.0	2.7	2.7	2.3
Military	1.1	11.7	1.8	1.3	1.1	1.6

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Style 4: MAN'S BEST FRIEND

Style 9: THIS LITTLE PIG WENT TO MARKET AND THE MIDDLE MAN MADE ALL THE MONEY

Style 10: I'M A FAMILY FARMER (ME AND MY UNCLE SAM SPLIT THE MONEY)

Style 5

Style 11: I love a FARMER

Style 6: I'm Proud to be a Farmer

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FFA IN ACTION

Carl Luebchow, chapter president, took his turn at taking down the flags along Main.

FLAGS FLOWN PROUDLY

Members of the Buckley-Loda, Illinois, FFA showed their support of the hostages in Iran by displaying the American flag along Main Street in Buckley.

The FFA began displaying the flags on February 3, 1979, and continued the project until the end of the '79-'80 school year. The Buckley Chamber of Commerce continued flying the flags during the summer months by having their members take turns putting up and taking down the flags.

When school started this fall, responsibility was turned back over to the FFA. Flags were put up each morning by members during their study hall and were taken down after school.

The Chamber of Commerce, who owns the flags, has cooperated with the Buckley-Loda FFA in sponsoring this project. *(Rod Grohler, Reporter)*

HIGH LEVEL PUBLICITY

The Standish-Sterling, Michigan, FFA has a new sign in the community.

Former president Joe Golimbieski and member Tim Stein had high hopes for the FFA as they climbed the 80-foot Harvestore silo at the Golimbieski farm to apply an FFA emblem to the silo next to the farm name.

They challenged the silo from both ends. Tim was lifted up by a number of FFA members, while Joe was lowered down a rope to where the sign was to be positioned. Tim was secured in a tire with a number of safety ropes, as was Joe when he was lowered down the side. They cleaned the side and applied the sign to the silo with shellac.

The total project took approximately four and one-half hours and an additional two hours to stop shaking. *(Linda Hart, Reporter)*

ENERGY ACTION: FILL 'ER UP WITH WOOD

In September, the Santa Fe, Florida, FFA chapters got to try out a wood-burning tractor.

Mr. Robert Hargrave, a former agriculture teacher and local rancher, is responsible for the development of the "wood gas burning tractor." Since he is a local rancher himself, he was deeply concerned about fuel shortage.

It takes one bushel of wood to run the wood gas-fired tractor for a full hour and when 22 pounds of wood are placed in the tractor, it is equal to one gallon of gasoline. Wood gas is typically 20 percent carbon monoxide. *(Susie Wilson, Santa Fe Senior Chapter Reporter)*

Senior Jackie Howell operated the new wood gas burning tractor.

SEASONAL SIGN UP

Families and businesses in Kennewick, Washington, have a handy way to express Season's Greetings to everyone in town.

Thanks to the Finley FFA, they can get their names up on the Christmas sign board where everyone can see the greeting.

FFA built the board originally in 1977 for about $200 from plywood. They make cosmetic improvements from year to year.

Each year, for the holiday season, FFA offers to put up names for $5 each. They can fit about 140 nameplates on the board (and will likely expand it as demand continues to grow). Most of the folks who use it appreciate this way to express their greetings to friends and customers. *(Gerry Ringwood, Advisor)*

HAM HOCK WINGDING

Poway, California, FFA boosters alumni affiliate organized a "wingding" to get more folks in the community to come learn about vo-ag and FFA.

Folks were invited personally and by ads and articles in the local paper. Guests could request or were given free tickets (so food counts would be accurate).

Over 400 attended the open house and information meeting.

The ham hocks and lima beans were served with corn bread, pie and other goodies. Door prize was a big ham.

FFA members prepared exhibits for the shop, greenhouse and farm plus took the opportunity to fill orders for hams, sausage and roaster chickens.

Spade work for all of this Alumni support came from Mr. Larry Augenstein, a member of the first national officer team in 1928-29.

SAFETY RODEO

Members of the Parkersburg, Iowa, Chapter initiated an annual tractor safety rodeo to promote tractor safety.

The project was done in conjunction with the community's annual celebration. The

(Continued on Page 45)

Name plates can be imprinted in three different lengths to use the space effectively. Vandalism has been nil and the sign board gets good community support for Finley Chapter.

REPORT TO THE TOP

State officers for the Tennessee Association presented Governor Lamar Alexander with a summary highlighting the past year's activities in vocational agriculture and FFA, culminating with the recent Notional FFA Convention in Kansas City. On the front row, left to right, are: Ralph Barnett, agriculture education state specialist for west Tennessee; Will Lewis, agriculture education state specialist, Nashville; Tim Shivers, state secretary; Mark McBride, president; Governor Alexander; Rhedona Rose, treasurer; Ed Barnett, east vice president; Steven Gass, reporter; and Kenneth Mitchell, head state specialist for agriculture education and FFA. Standing in back, left to right, are: James Brockman, west vice president; Phil Brannon, sentinel; and Troy Dugger, middle vice president.

celebration this year raised $10,000 towards the loan payment on the town's new ambulance.

The FFA was active in planning, coordinating, setting up, scoring and judging of the rodeo. The rodeo was free to the public and donations were collected during the event to help pay for the ambulance.

Events included backing the two-wheeled livestock scales through a 100-foot "S" curve, backing a hay rack through a 40-foot alleyway, backing a tractor up to hitch up a wagon and a garden tractor figure eight for children. Over 50 people participated in the rodeo and all contestants were given tractor safety instruction and a safety booklet prepared by the chapter.

Labor was provided by the FFA and tractors and equipment were donated by community dealers. The courses for the event were marked with bales of hay.

(Continued on Page 46)

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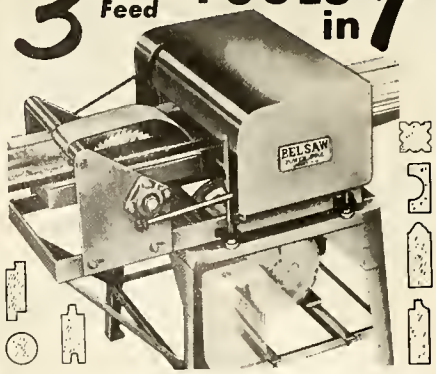

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FFA IN ACTION

(Pick up ACTION from Page 45)

The FFA donated $225 to the ambulance fund after the event and awarded $50 worth of trophies and $25 worth of prizes to the winners. First, second and third prizes in four divisions were given. Three radio stations, two newspapers and 15 different local businesses and organizations were involved. Next year in the second annual rodeo, FFA members want five different events, with one to be a team event involving safe operation of a combine and a loading vehicle.

The FFA chapter has also sent information on the rodeo to another chapter as an aid in planning theirs.

BLOWN BY THE WIND

Tornados struck Grand Island, Nebraska, in June and left a wide swath of destruction.

After a few days, at a Waverly Chapter meeting, it was decided to take a group of members over to Grand Island to help two farmers there, Rudy Kruse and Bob Sundermeir.

Mr. Kruse owned a 15-acre hayfield which the tornado has used as a dumping ground for many roofs from nearby houses. Out of the nine truck-loads that were picked up from nearly half of that field that day, there was an estimated one mile of electric cable, 50 sheets of plywood and some rafters.

On a second trip, the members went to the Sundermeir farm where three grain bins had been destroyed as well as many trees uprooted. Waverly FFA cleaned up there, too.

With an estimated $5.1 million damage done to the rural area alone, the handful of chapter members could only put a dent into the massive cleanup. But to Rudy Kruse and Bob Sundermeir, the Waverly Chapter helped a great deal. *(Tom Peterson, Reporter)*

STATEMENT OF OWNERSHIP, MANAGEMENT AND CIRCULATION
(Required by 39 U.S.C. 3685)

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10. Extent and nature of circulation:

	Average No. Copies Each Issue During Last 12 Mo.	Single Issue Nearest To Filing Date
A. Total number copies printed	516,099	512,400
B. Paid circulation		
1. Sales through dealers and carriers, street vendors and counter sales	None	None
2. Mail subscriptions	510,620	506,679
C. Total paid circulation	510,620	506,679
D. Free distribution by mail, carrier or other means. Samples, complimentary, and other free copies	1,481	2,012
E. Total distribution	512,101	508,691
F. Copies not distributed.		
1. Office use, left over, unaccounted, spoiled after printing	3,998	3,709
2. Returns from news agents	None	None
G. Total	516,099	512,400

I certify that the statements made by me above are correct and complete.

WILSON W. CARNES, Editor

FACTS FOR ACTION
A BICYCLE CHECKOUT

The cyclist needs an efficient, comfortable bicycle and durable equipment that is easily maintained in order to enjoy cycling, especially for long distances as FFA members likely travel. Select your bike carefully. Equip it with reflectors and head and taillights. Use a rear-view mirror. Make sure you schedule thorough adjustments on a periodic basis. In addition, every day before cycling, perform a quick bicycle safety check. This entire routine takes less than five minutes and assures you that all vital parts are functioning properly.

Check for play in the handlebars and headset: clamp on the front brake and push (don't roll) the bike forward against the brake.

Check for tight brakes: clamp on the brakes and make sure they hold the wheels from turning.

Check for loose parts: grab the bicycle by the saddle and shake it vigorously to see that there are no rattles or noises.

Check wheel function: pick up the bicycle so that first one wheel and then the other is off the ground; make sure each wheel spins freely and there is no side-to-side play; with thumb, check tires for hardness.

Check crank hanger performance: make sure there is no vertical or side play.

Check gear shift: push pedal forward in each of the gear settings to see that it engages properly (back-pedal before shifting from high to a lower gear).

(From the Virginia Department of Transportation Safety.)

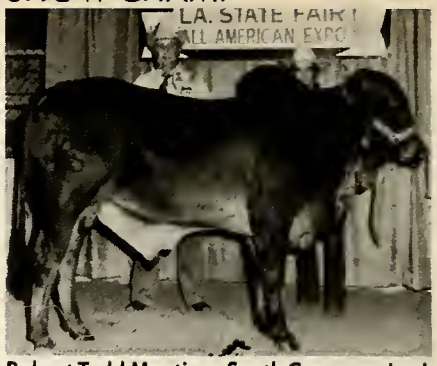
ENERGY ACTION: WINDOW COVERS

The North Crawford FFA Chapter of Gays Mills, Wisconsin, continued work this fall on a project that was begun last year. They are insulating 48 large windows of a large school building which is extremely inefficient from an energy standpoint. The school is buying the materials and the FFA members are doing the insulating. The FFA community service committee came up with the suggestion for the project and the administration and school board gave the okay.

The completed project will affect the high school library and five classrooms. Students and teachers are convinced the project is a success because of increased comfort.

The FFA hopes to get infrared photos taken of the school this winter to help analyze the building for further energy conservation projects and to evaluate the results of this year's project. *(John Gibbs, Advisor)*

SHOW CHAMP



Robert Todd Montie, o South Cameron, Louisiona, FFA member, exhibited the grond champion Brahman bull for the state foir's junior show. Montie won his spring yearling class with RTM MC Rio King Negro, ond went on to win the chompionship with the red Brahman bull over 95 other competitors.

SUGAR SHACK

The Cazenovia, New York, Aggies Chapter has just completed their first sugaring season in their new sugar house. They make about 75 gallons of maple syrup from the 300 taps they had on the Freeborn, Hyatt and Cody farms.

Renovation to the school took the portable sugar house, which had served the Aggies well for the last ten years, out of commission.

So an unused storage shed at the rear of the high school was made available by the superintendent of schools. School staff with the help of various chapter members class soon made the 24-foot by 8-foot building ready for the evaporation of maple sap.

Now that the sugaring season is over, the Aggies will complete the work on the sugar house by painting it, putting in storage shelves and by building a permanent rack for the sap storage tank.

The new sugar house has permitted the Aggies to continue their tradition of an annual pancake breakfast held in April in the shop from 6 a.m. to 1 p.m. *(Bruce Meigs, Reporter)*

SOIL SAVERS

The Jefferson, Iowa, FFA started something new last fall that brought about a closer look at the need for conservation.

Students were studying "soils" and the need for conservation in class. After a couple of field trips along with the SCS agent Steve Yadoff, the members passed a motion to put up percent residue signs along the heavily traveled roads.

The purpose of this activity was to not only inform the students of the needs and different methods of conservation, but also to open the public eyes to the increasing need of conservation. With these signs posted, the public could actually see what is meant by 10 percent residue, 30 percent residue or 50 percent residue.

After the signs had been up for about two weeks, both the FFA chapter and the SCS of-

(Continued on Page 50)

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FFA IN ACTION

(Pick up ACTION from Page 46)

fice wrote articles and put them in the paper explaining what the signs were for and how much erosion could be stopped by the varied amounts of residue left on the surface. Members did get permission of local farmers to post the signs along their fields.

This project, to say the least, was a success. There were many calls from people who wanted to know more about the project and conservation and many calls of thanks from people who are concerned about Iowa's most valuable resource, soil. *(Jim Merron, Advisor)*

DITCH DIGGERS ON CAMPUS

The Creswell, Oregon, Chapter solved the drainage problem on campus by putting in a massive drainage project connecting the greenhouse, four manholes, the football field and the chapter barn.

A 550-foot drainage line extends from the manhole by the barn length-wise across the land lab field. There are also four short drain lines that extend out in front of the chapter barn.

This month-long project was made possible through a $4,800 grant to the vo-ag department by the Soil Conservation Service.

This project will prepare the land lab for use for students' projects and for some kind of grain crop to be planted during planting season. *(Bev Coop, Reporter)*

SEEING THROUGH THE EYES OF A SEED SCIENTIST

The North Dakota FFA crop judging champians and their advisor Jae Lemer of Elgin, North Dakota, right, visited Narthrup King Company headquarters and seed physiologist Dr. Kim Jaa, left, who explained haw seeds are "cald tested" far early spring vigar. Team members include: left to right, Duane Kuntz, Elgin; Cary Schaan, Berthad; and Pat Brawn, Bismarck. Visit was part of a tour of teams from Mantana, South Dakata and Minnesota, tao.

AN ACCIDENT STUDY FOR EMERGENCIES WITH FARM EQUIPMENT

FFA in Liberty, Indiana, hosted a very successful farm accident-response meeting in their shop. Over 64 members of emergency rescue units in four counties were there besides the chapter officers and other ag community leaders.

Bill Fields, farm safety specialist from Purdue University Cooperative Extension Service, conducted the three-hour training session. Participants were taught rescue procedures involving accidents with trailers, farm equipment and grain handling equipment.

Other hosts along with FFA were their local emergency unit and fire department and their own county extension service. *(Terry Dare, Reporter)*

ACTION LINES

- Start a collection of something that's just "you"—like candy wrappers.
- How about a sandwich of braunschweiger and chopped onions?
- Just go ahead and ask him about it.
- Take pictures of your farm in fall, spring, summer and winter.
- Write with purple ink.
- Decorate the kitchen table with candles you made.
- Give a small fish tank to your grandmother or uncle.
- Can you stop nagging your little brother?
- Go clean up the shop.
- Ask a serious question.
- Make a cookie as big around as you.
- Cuddle a cat.
- Provide homemade popcorn balls.
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- Have them teach you to arrange flowers.

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The organization put up a billboard to publicize the celebration.

MARKING 50 YEARS

Austin, Minnesota, FFA Chapter celebrated its 50th anniversary August 16, 1980. An all-day rain failed to nullify the spirit of the occasion. Four FFA Alumni each donated a meat-type hog and the chapter, the sweet corn. Alumni and chapter members joined forces to prepare the feast. A total of 400, loyal to FFA, ignored the rain to attend and renew friendships of long ago.

W. G. "Gary" Wiegand, the honored guest and featured speaker (now 84 years of age), served as instructor in the pre-charter years of 1923-1930 and also following the July 25, 1930, charter until 1944. His dedication to FFA is as strong as ever. "This day," he said "is the highlight of my life." Don Ritland, the Minnesota Vocational Agriculture Instructor of the Year, has served the chapter since 1949. He also had a field day greeting former students. All in all, it was a day to remember.

Alumni and friends purchased FFA booster buttons and an 88-page anniversary book that included pictures of vocational agriculture instructors, charter members, American Farmers, chapter activities, and state and national winners. Chapter officers, major accomplishments and the complete roster for each of the 50 years were featured in the record. The book was dedicated to the agriculture instructors who served the chapter during the 50-year period.

Honoree Gary Wiegand and W. J. Kortesmaki, former stote executive secretary in Minnesota, renewed friendship and swapped stories.

Work crews cooked the hogs for the feed.

FFA members shucked the sweet corn to be served.

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Ray and Steve maintain complex farm machinery with skills learned in the vo-ag shop and classroom. *Photos by Ronel Roberts*

Owning Shares In Their Futures

Incorporation, an optional business structure, can be a boon—not a threat—to family farms.

By Jeffrey Tennant

IN a state the size of Texas, where nearly 60,000 Future Farmers make up 12 percent of the national FFA membership, you'd think the state's Star Lone Star Farmer and an Area Star Greenhand for 1980 would be strangers.

The chance is probably no closer than one in a million. But the current stars among Texas Future Farmers beat the odds. Star Farmer Raymond and Star Greenhand Stephen are about as related as they come.

The two brothers are part of the "Sons" in Arthur Mahaltic & Sons, Inc., of Eagle Lake, Texas. Raymond and Stephen, along with father Arthur, mom Clara, and brothers Anthony, Al and Calvin, operate a 2,000-acre row crop and cattle outfit in river bottom land. Though Raymond, 18, and Steve, 16, are the youngest of the family, they don't take a backseat to responsibility.

"We're supposed to get home and work in the soybeans today," said Ray,

Ray (left) checks soybean progress on a hearty plant as younger brother Steve watches and learns.

only a moment after receiving his Star award and Lone Star Farmer degree at the Texas state FFA convention. Brother Steve seemed only a bit less anxious, taking in the surrounding pageantry and flurry of convention activity.

Back at the Eagle Lake farm, work continued as it must with 350 acres of soybeans, 1,700 acres of corn, 120 commercial steers and several registered Brangus show cattle dependent on regular attention. The president of the family's farm corporation, Arthur Mahaltic, does excuse his corporate "partners" occasionally—even "no questions asked" when it means a grand award. President Mahaltic is used to giving his sons time off to bring home honors from FFA and showring endeavors.

"Our three brothers blazed a trail for Ray and me," says Steve, reflecting an attitude that makes this family a close-knit unit with a goal to excel in farming. "We're all engaged in the operation together now. In fact, one reason for our family corporation is to keep everyone actively involved in farming. We all have our fair share, and you earn your own 'piece' of the place."

The corporate farm formed two years ago by the Mahaltics continues to flourish. The corporate structure has reduced the tax load on the family, allowing more re-investment capital. Family members earn their own shares in the business, giving each shareholder a feeling of independence and accomplishment. Such securities, plus a splitting of profits based on shares earned and owned, create a healthy atmosphere for progressive farming in partnership.

"We can accomplish much more by working together," avows Raymond. "The economic situation today puts great pressure on farmers. We all feel we face a great challenge."

"We know," Steve breaks in, "the more we put in, the more we'll be rewarded. In the long run, that helps the farm as a whole."

The Mahaltic brothers each earn an hourly wage paid by the corporation, based on devotion of time and ability. Labor bonuses are paid at year's end, and profits from crops are distributed following sale of the harvest. Ray and Steve both consider the corporate structure good for the family and the farm.

"I didn't understand the set-up at first," admits Steve, currently a sophomore at Eagle Lake's Rice Consolidated High School. "But now I'm getting a grasp on the workings. I understand why it's important to re-invest your own earnings to build up the farm. My vo-ag teachers and FFA's emphasis on record keeping have helped me understand our farm's management scheme."

"These two have turned out the best record books we've ever seen," offers FFA Advisor Ronel Roberts, one of three vocational agriculture teachers at Rice Consolidated. "Their attention to management has contributed greatly to their many awards in FFA."

Ray, now a senior, affirms he learned many management skills through his studies in vocational agriculture. But know-how alone usually won't get the job done.

"Ray and Steve know the value of education," attests Advisor Roberts, "but, as important, they aren't afraid of hard work. Their attitudes are very good and they've never met a stranger. Troy (Krenek), Willie (Fitzgerald) and I can't teach those things."

Just as their three brothers "blazed a trail" to college, attaining associate degrees in farm and ranch management, Ray and Steve look forward to post-secondary education.

"The school's only 25 miles away," says Ray, "so we can still work on the farm. I'm going to study business and probably diesel mechanics, something we're lacking that I can contribute."

As for Steve, his quick grasp of the farm's financial workings has already planted career seeds. "Mom wants me to be the family accountant," he offers, adding with care a conclusion that embodies this family's unity in farming: "Working on our farm business, of course."

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Mike Guido
Fund-Raising Chairman
Northwest Arlington Lions Club,
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Farm Picture

(Continued from Page 18)

Farm Price Outlook: October 1, 1980, support price for grade milk set at $12.80 for the marketing year into 1981. Price can be adjusted on April 1, 1981.

Poultry and Eggs

Higher prices for poultry and eggs will be enjoyed by farmers in 1981, a welcome change from the cost-price squeeze of early 1980. Broiler and egg prices may increase 18 to 20 percent—turkeys, 10 to 12 percent.

Broiler consumption is expected to rise in '81 along with turkey eating, which is changing from holiday tradition to a year-round meal item.

Farm Price Outlook: (per pound) broilers—51-58 cents; turkeys—67-70 cents in first half, possibly 75 in last; eggs—76-81 cents per dozen.

Hogs

Hog prices should increase in 1981 mainly because producers adjusted breeding inventories downward in response to financial losses in 1980. However, higher returns in 1981 may be offset by higher production costs, especially feed. Total cash cost may average $52 per cwt. in 1981.

Hog slaughter will be below 1980 levels but consumption of pork is also expected to decline. A major price determinant, then, will be the apparent decline in meat supplies and the high price of competing meats.

Farm Price Outlook: barrows and gilts—near $50 per cwt. in first half, up to $60 per cwt. in last.

First Aid for Farmers

MINOR accidents, irritation from agricultural chemicals, overexposure to sun and heat rash are common problems for farm families and workers.

A farm's medicine chest or first aid cabinet is therefore of crucial importance. Medical/first aid stores should be carefully checked at least twice a year, with special attention paid to outdated medications and missing items. All stocks can be replenished during the semi-annual inspections.

Crucial telephone numbers should be taped inside the cabinet; such numbers should include the family doctor, nearest poison control center, drug store, police, fire and ambulance services. While many families post these important numbers by the telephone, a duplicate copy in the medicine cabinet can't hurt.

Along with telephone numbers, record any drug allergies and sensitivities of family members, or workers.

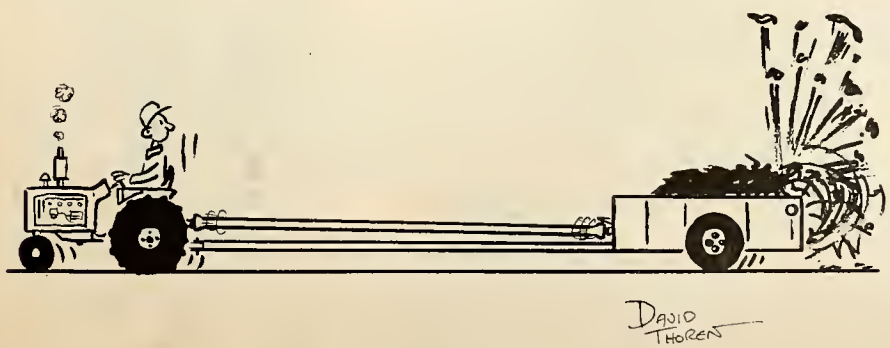
First aid equipment for the medicine chest should include:

- A box of standard bandaids in assorted sizes.
- Moleskin for blisters.
- Sterile gauze pads and a roll of adhesive tape.
- Antibiotic ointment for cuts and burns such as Mycitracin.
- Tweezers and needle for removing splinters.
- An eye cup.
- Ice bag to apply to injured muscles or joints.
- Oil of cloves for toothache.
- A remedy to control common diarrhea, such as Kaopectate.
- Glycerine suppositories and a laxative.
- An agent to induce vomiting.
- Nose drops or nasal spray.
- Antihistimine for allergic episodes.
- Cortaid hydrocortisone cream, lotion or ointment for relief of rashes and itching due to eczema, dermatitis, insect bites, poison foliage and soaps or detergents. Available from The Upjohn Company.
- Rectal and oral thermometers.

An up-to-date, easily readable first aid manual should also be on hand.

Prescription drugs should, if possible, be kept on separate shelves. Make sure all prescription drugs are clearly labelled and discarded when no longer needed. Drugs prescribed for long-term use should be checked for expiration date.

The medicine chest is best located in a central, easily accessible and well-lit area.



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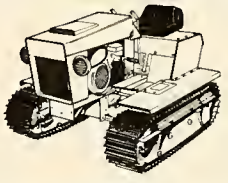

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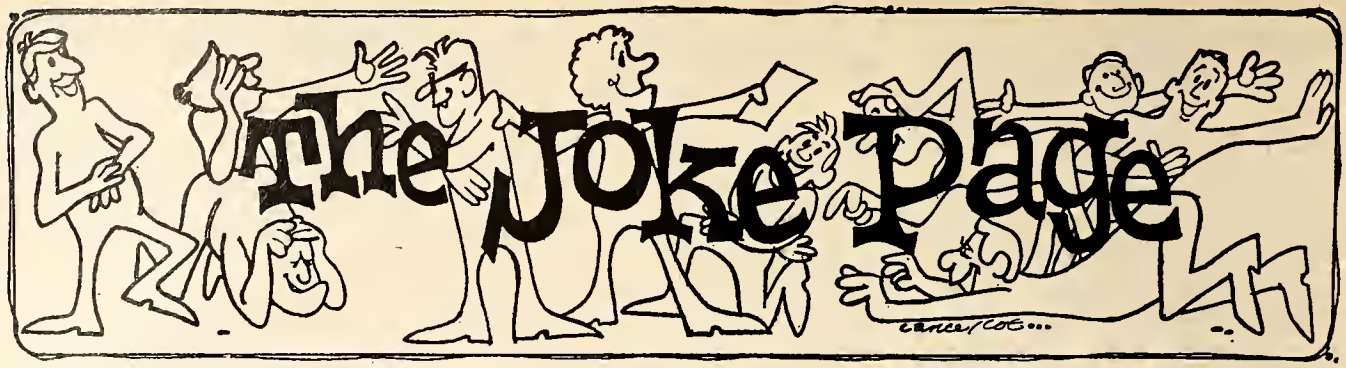
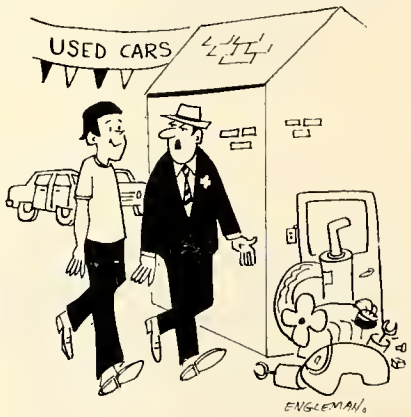


For years the farmer's wife complained about her husband leaving the cap off the toothpaste. Finally, he decided that it was silly to go on doing something that was annoying her. So he started the practice of conscientiously replacing the cap after each brushing. After about a week, his wife eyed him suspiciously one morning and said, *"How come you stopped brushing your teeth?"*

Bobbie Mae Cooley
Bowen, Illinois



"If you only have $50 to spend, I have one back here that needs a little work."

Penny: *"My father can play the piano by ear."*
Benny: *"That's nothing. My father fiddles with his whiskers."*

Amy Workman
Mount Pleasant, Tennessee

Mom: *"Who was on the phone?"*
Son: *"Oh, some lady just to tell us 'It's long distance from London.'"*

Jason Moore
Liberty, Kentucky

Jimmy says he's optimistic about beef prices. In fact he's so optimistic he just leased a pot roast with option to buy.

Joe Notsch
Sauls Rapids, Minnesota

Assistant: *"Here's a letter from our Sahara office. Short of water again."*
Manager: *"They're always short."*
Assistant: *"I know, but this time it's really serious. The stamp is pinned on."*

Mike Fuher
Bailey, Michigan

When the student received a report card with four F's and one D, he was called before the principal and asked if there could be any explanation for four failing grades.

"I guess I just spent too much time on the other subject," he said.

Oran Nunemaker
Glasco, Kansas

Q: What would you do if you woke up in the middle of three lions, six tigers, four wild horses and one mean-looking ostrich?

A: Get off the merry-go-round.

Karrie Stephenson
Vinton, Louisiana

Moe: *"Did you hear about the guy that froze to death at the drive-in?"*
Harry: *"He went to see 'Closed For The Season.'"*

Marvin L. Harmon
Miami, Oklahoma

If swimming is so great for the figure, how do you explain the whale?

Janet Klopping
Garrison, Iowa

A policeman was trying to convince a man not to jump off a bridge. The policeman said, *"Think of your family and friends."*

The man replied, *"That's one of the reasons I'm jumping."*

"Think of your cousins and relatives," said the policeman.

"That's another reason I'm jumping," answered the man.

"Think of the Cleveland Browns," begged the policeman.

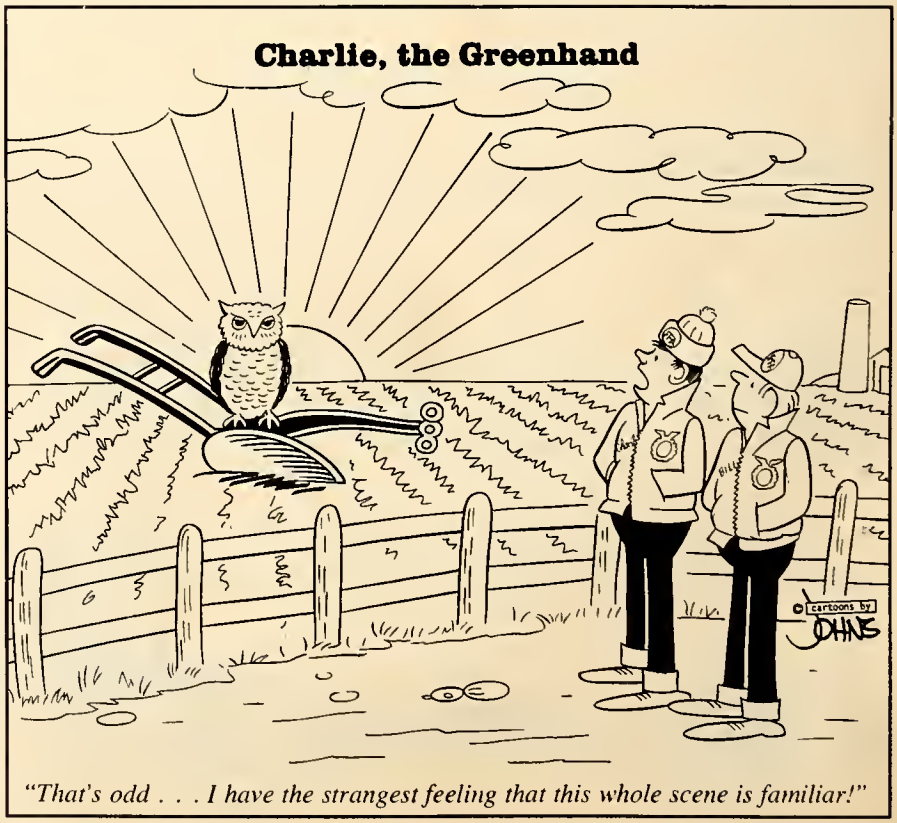
"I hate the Cleveland Browns," said the man.

"Then jump you Steelers fan," yelled the policeman.

Patrick Adams
Celina, Ohio

City Slicker, watching a farmer pitch hay, *"What did you say your son does?"*
Farmer: *"He has a big shoeshine stand in the city."*
City Slicker: *"Oh, I see. You make hay while the son shines!"*

Harold Niehaus
Oxford, Ohio



"That's odd . . . I have the strangest feeling that this whole scene is familiar!"

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Recipe: Cut rabbits into serving size pieces; soak young rabbits 1 to 2 hrs. in salt water — 12 to 18 hrs. for older rabbits — 1 tsp. salt per qt. of water; after soaking, wrap meat in damp cloth and store overnight in cold place; butter a casserole dish and add a layer of rabbit pieces; sprinkle with ½ tsp. salt, fresh ground pepper to taste, ½ tsp. ground thyme and 3 large bay leaves; add 5 slices cut bacon; repeat layering until ingredients are used up; pour 1 cup water over casserole, cover and bake at 350° until tender — 1 to 2 hrs. depending on age; remove cover and sprinkle 1 cup seasoned bread crumbs over casserole; bake 30 min. and serve.

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